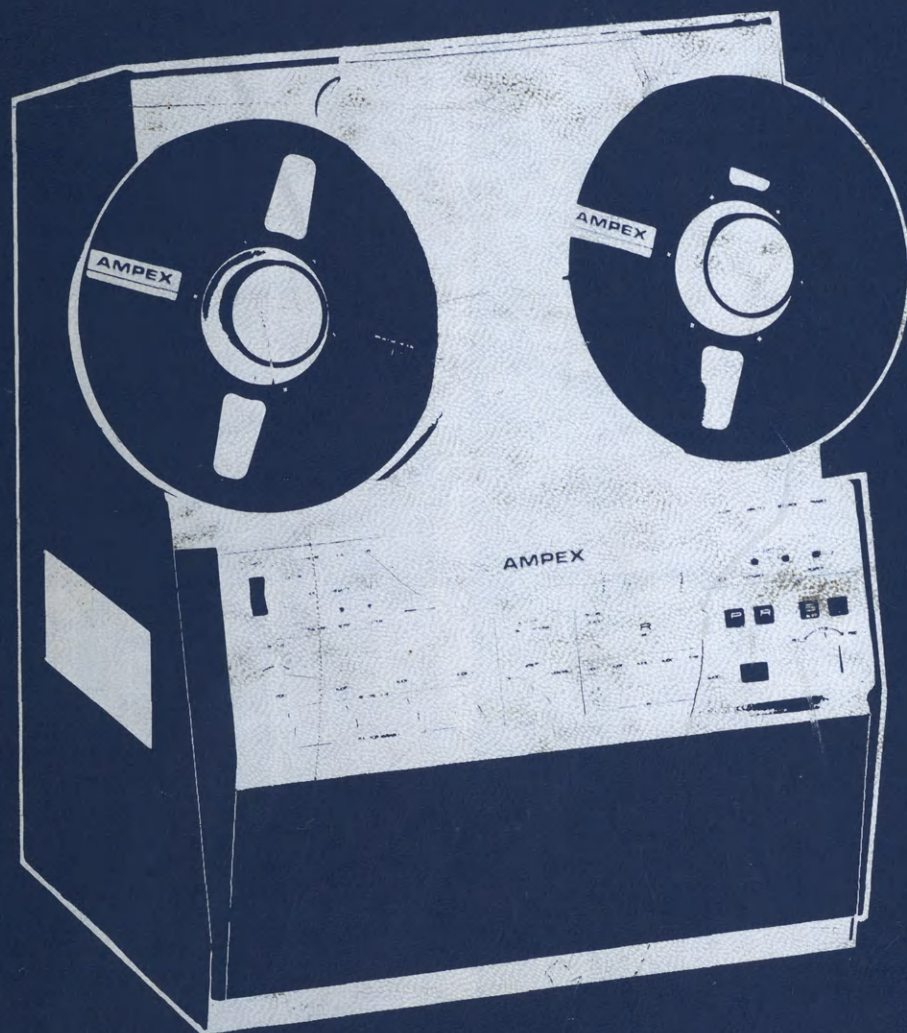


VPR-2B

VIDEO PRODUCTION RECORDER



PARTS LISTS AND SCHEMATICS

1809472

AMPEX

Catalog No. 1809472-11
Issued: September 1982

VPR-2B
VIDEO PRODUCTION RECORDER

PARTS LISTS AND SCHEMATICS

AMPEX CORPORATION
AUDIO-VIDEO SYSTEMS DIVISION

Prepared by
AVSD Technical Publications
Ampex Corporation
401 Broadway
Redwood City, CA 94063

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Catalog No. 1809472-11
Issued: September 1982

FOR ADDITIONAL TECHNICAL INFORMATION

FIELD ENGINEERING BULLETIN SERVICE

AMPEX	REF. NO. 60271
FIELD ENGINEERING BULLETIN	SHEET NO. S-7503-23.1
TITLE: ACR-25 SPARE PARTS INFORMATION REISSUE	MODEL NO. ACR-25
	DATE OF ISSUE 3/75
	DISTRIBUTION

I. APPLICABILITY All ACR-25 Ingestor Recorders. This FEB replaces FEB 60270.
II. PURPOSE A listing of the following items used in the ACR-25 for spare parts inventory and parts ordering information: Blocks, Identifiers, Integrated Circuits, relays, lamps and switches.
III. DESCRIPTION Parts are listed, as much as possible, in numerical order by Ampex part number. Parts for all accessories, except IDH (Identification Data Accessory) and ADA (Automatic Data Accessory) are included in this listing. The total quantity of each item in the ACR-25 is given. This list is for information only.
NOTES: 1. Some items are not used in all ACR-25's. Refer to the notes on the last page of this FEB. 2. A spare parts kit for the ACR-25 is available from Ampex. The part number is 1502704-04.

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Effective: 1 October 1980

SAFETY AND FIRST AID SUGGESTIONS

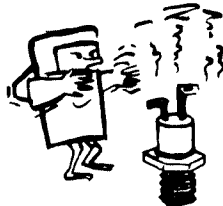
Regardless of how well electrical equipment is designed, personnel can be exposed to **dangerous electrical shock** when protective covers are removed for maintenance or other activities. Therefore, it is incumbent on the user to see that all safety regulations are consistently observed and that each individual assigned to the equipment has a clear understanding of first aid related to electrical hazards.

In addition, the following safety practices must be followed:



- 1 Do not attempt to adjust unprotected circuit controls or to dress leads with power on.

- 2 Do not touch heavily loaded or overheated components without precaution to avoid burns.

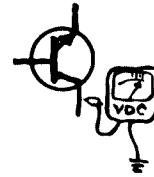


- 3 Do not assume that all danger of electrical shock is removed when power is off. Charged capacitors can retain dangerous voltages for a long time after power is removed. These capacitors should be discharged through a suitable resistor before any circuit points are touched.

- 4 Always avoid placing parts of the body in series between ground and circuit points.



- 5 Remember that some semiconductor cases and solid-state circuits carry high voltages.



- 6 Don't take chances. Be fully trained. Ampex equipment should be operated and maintained only by fully qualified personnel.

If someone seems unable to free himself while receiving an electrical shock, **turn power off** before attempting to render aid. A muscular spasm or unconsciousness can make a victim unable to free himself from the electrical power.

WARNING

DO NOT
TOUCH VICTIM OR HIS CLOTHING BEFORE
POWER IS REMOVED OR YOU MAY ALSO
BECOME A SHOCK VICTIM

If power cannot be removed immediately, **very carefully** loop a length of dry nonconducting material (such as rope, insulating material, or clothing) around the victim and pull him free of the power. Carefully avoid touching him or his clothing until free of power. Immediately start the appropriate first aid procedures.

GOOD PRACTICES

In maintaining the equipment covered in this manual, please keep in mind the following standard good practices:

1. When connecting any instrument (oscilloscope, waveform monitor, etc.) to a high-frequency output, use the appropriate termination resistor at the input of the instrument, unless the instrument is terminated internally.
2. When inserting or removing printed wiring assemblies (PWAs), cable connectors, or fuses, always turn off power to the affected portion of the equipment. After power is removed, allow sufficient time for the power supplies to bleed down before reinserting PWAs.
3. When troubleshooting, remember that FETs and other metal-oxide-semiconductor (MOS) devices may appear defective because of leakage between traces or component leads on the printed wiring board. Clean the printed wiring board and recheck the MOS device before assuming it is defective.
4. When replacing MOS devices, follow standard practices to avoid damage caused by static charges and soldering.
5. When removing components from PWAs (particularly ICs), use care to avoid damaging PWA traces.

WARNING

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. As temporarily permitted by regulation it has not been tested for compliance with the limits for Class A computing devices pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

INTRODUCTION

This manual provides parts lists and schematics for the VPR-2B Video Production Recorder, Ampex Assembly Number 1400000.

Five indexes list the assemblies as follows:

Indented List of Assemblies — List of assemblies in sequence of appearance in the manual.

Numerical List of Assemblies — List of assemblies in numerical sequence.

Numerical List of Schematics — List of schematics in numerical sequence.

List of Schematics by PWA Number — List of schematics in PWA number sequence.

List of Programmable Read Only Memories (PROMS) in numerical sequence.

RELATED DOCUMENTS

CATALOG NO. TITLE

1809477-01 Theory and Maintenance

1809519-01 Installation and Operation

Note: This issue of the manual reflects the documentation as of 23 August 1982.

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1400328	Scanner Servo PROM (Fine), A23	10-169
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1400318	Control Track PROM (Coarse), A23	10-216
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VPR-2B Video Production Recorder

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				00									
1	1400001-04	VPR-2B BASIC ASSEMBLY	14	1									
2	1400001-01	VPR-2 BASIC ASSEMBLY											
3	1400750-06	VIDEO KIT, 525	1	1									
4	1400753-06	VIDEO KIT, 625											
5													
6	1400130-04	PWA, COLOR FRAMER, NTSC	1	1									
7	1451594-02	PWA, COLOR FRAMER, PAL/SECAM											
8	1400136-05	PWA, COLOR FRAMER, PAL-M											
9													
10	1400810-01	NON AST KIT	1	1									
11	1400809-03	AST KIT	2										
12													
13	1401161-05	HEAD, 525 VIDEO R/P	2	1									
14	1401162-05	HEAD, 525 AST											
15	1401166-05	HEAD, 625 VIDEO R/P	2										
16	1401167-05	HEAD, 625 AST											
17													
18	1400830-04	NON SYNC KIT, 525	2	1									
19	1400820-03	SYNC KIT, 525											
20	1400833-04	NON SYNC KIT, 625	2										
21	1400823-03	SYNC KIT, 625											
22	1451578-02	4 CHANNEL AUDIO KIT, 625	9	1									
23	1400763-05	4 CHANNEL AUDIO KIT, 625		2									
24	1400801-06	3 CHANNEL AUDIO ASSEMBLY	14	1									
25	1400760-08	3 CHANNEL AUDIO ASSEMBLY KIT											
26	1401070-02	PWA, VIDEO BYPASS		1									
27	1400840-03	TC READER/GENERATOR, MOD.	2	1									
28	1400860-02	TC READER/GENERATOR KIT	12										
29	1400006-02	MAINTENANCE TOOL KIT, 60 HZ	2	1									
30	1400009-02	MAINTENANCE TOOL KIT, 50 HZ	2	1									
31	1400570-01	TABLE TOP CASE KIT	2	1									
32	1400880-01	REMOTE CONTROL KIT	2	1									
33	1400885-01	REMOTE CONTROL KIT	14										
34													
35	1400870-02	VPR-1 CONSOLE CONVERSION KIT	2	1									
36													
37	1400859-01	TC READER/GENERATOR KIT (WITH POWER SUPPLY UPGRADE)	2	16									

AMPEX		Amplex Corporation, REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-14000000 SHEET 2	CC									
ITEM NO	PART NUMBER	DESCRIPTION			REF DESIG	QTY REQD PER DASH NUMBER:										
38	1400917-02	PANEL, TBC FILLER			8	1										
39	1400900-04	LOWBOY CONSOLE KIT			2	15	1									
40	1379204-AA	PANEL, FILLER			8	1										
41	1379242-01	PANEL FILLER TOP			10	1										
42	1400890-04	MONITOR BRIDGE KIT			2	3	5	7	1							
43	1400931-01	CABLE KIT, 625 CONSOLE			15	1										
44	545-256	MONO MONITOR (CONRAC DZA-14)			2	1										
45	545-213	COLOR MONITOR (NTSC TEK 650)														
46	545-214	COLOR MONITOR (PAL TEK 651)														
47	545-215	COLOR MONITOR (PAL TEK 652)														
48	545-237	COLOR MONITOR (SECAM)														
49	545-266	COLOR MONITOR WITH X-Y OUTPUT			11	1										
50	545-265	COLOR MONITOR WITHOUT X-Y OUTPUT														
51	545-233	WAVEFORM MONITOR (525 LINE)			2	1										
52	545-232	WAVEFORM MONITOR (625 LINE)			5											
53																
54	545-290	VECTOR MONITOR (TEK 1424)			6	2	1									
55	545-247	VECTORSCOPE (TEK 1420)														
56	545-248	VECTORSCOPE (TEK 1421)														
57	545-249	VECTORSCOPE (TEK 1422)														
58	545-229	MONITOR PANEL			2	1										
59																
60	1400850-01	ABC CONSOLE MODIFICATION KIT			2	1										
61																
62	1379343-01	FIXTURE TRANSPORT HANDLE			2	1										
63																
64	1400910-01	MINI CONSOLE KIT			2	1										
65																
66	1400920-01	RACK MOUNT KIT			2	1										
67																
68	1400856-01	ADAPTER, POWER STRIP			11	1										
69	545-269	AUDIO MONITOR (MERLIN ME-158A)			2	1										
70																
71	1400234-01	CHARACTER GENERATOR KIT MOD			2	1										
72	1400235-01	CHARACTER GENERATOR KIT			13											
73	1409283	VPR-2 UPDATE KIT LIST				REF										
74	545-271	COLOR MONITOR (NTSC TEK 650 HR)			2	1										
75	545-272	(PAL TEK 651 HR)														
76	545-273	(SECAM TEK 653 HR)														
77	545-274	(NTSC/PAL TEK 655 HR)														
78	545-275	((PAL/SECAM TEK 656 HR)														
79	545-277	COLOR MONITOR (PAL-M TEK 652 HR)														
80	1451586-01	VPR-2B, 3 CHANNEL IMPROVED AUDIO KIT			17	1										
81																
82																

AMPEX Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS		LM-1400000 SHEET 3		REF CC													
ITEM NO	PART NUMBER	DESCRIPTION		REF DESIG	QTY REQD PER DASH NUMBER															
				-00																
83	1401161-05	HEAD, 525 VIDEO R/P		1	1															
84	1400626-02	HEAD, 525 AST																		
85	1401166-05	HEAD, 625 VIDEO R/P																		
86	1400627-02	HEAD, 625 AST																		

NOTES: UNLESS OTHERWISE SPECIFIED.

- 1 SELECT ONE AS DIRECTED BY SALES ORDER.
 - 2 ITEM IS AN ACCESSORY AND WILL BE INCLUDED AS DIRECTED BY SALES ORDER.
 - 3 IF PICTURE MONITOR IS REQUIRED IN MONITOR BRIDGE (ITEM 42) SELECT ONE OF ITEMS 44-50, OR 74-79.
 - 4
 - 5 IF WAVEFORM MONITOR IS REQUIRED IN MON. BRIDGE (ITEM 42) SELECT ITEMS 51-OR 52.
 - 6 A COLOR MONITOR (ITEMS 45-48) IS REQUIRED WITH ITEM 54.
 - 7 ITEM 54 OR 55 IS REQUIRED WITH ITEM 42.
 - 8 LOWBOY (ITEM 39) WITHOUT TBC REQUIRES FILLER TAPPING (ITEMS 38 & 40).
 - 9 ITEMS 22 AND 23 TO BE INSTALLED ONLY ON 625 LINE MACHINES.
 - 10 LOWBOY (ITEM 39) WITHOUT MONITOR BRIDGE (ITEM 42) REQUIRES TOP FILLER PANEL (ITEM 41).
 - 11 ITEM 68 IS REQUIRED WITH ITEM 49 OR 50.
 - 12 USE ITEM 27 FOR SERIAL NO. 101 THRU 399.
USE ITEM 28 FOR SERIAL NO. 1850 AND UP.
 - 13 ITEM 71 FOR S/N 101-399
ITEM 72 FOR S/N 400 AND UP
- NOTE: ITEM 27 OR 37 IS A PREREQUISITE FOR THIS ACCESSORY.
- 15 ITEM 43 IS REQUIRED FOR 625 CONSOLE ONLY.
 - 16 USE ITEM 37 FOR SERIAL NO. 400 TO 1850.
 - 17 FACTORY INSTALLED ON 625 VERSIONS ONLY.

1400001-04

BASIC ASSEMBLY
NEXT HIGHER ASSEMBLY 1400000

REV. J

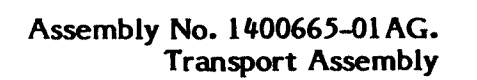
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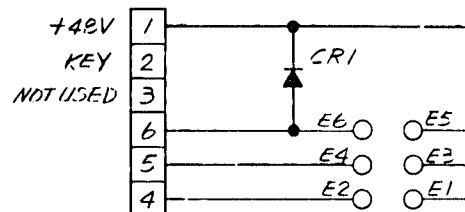
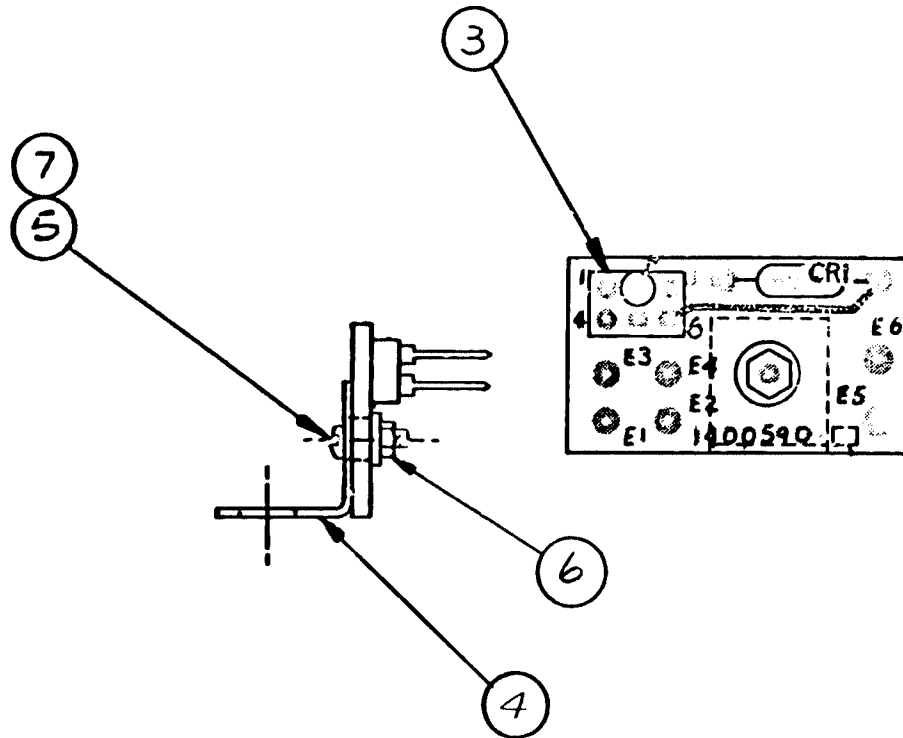
ITEM NO.	PART NUMBER	E	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
					01									
1	1378664-02		SHUTTER		1									
2	1378672-02		PIN, ALIGNMENT		2									
3														
4	1378684-AE		SPACER, TRIM PANEL		2									
5	1378684-AC		SPACER, TRIM PANEL		1									
6	1378684-AD		SPACER, TRIM PANEL		4									
7														
8	1378749-01		WASHER, PINCH ROLLER		2									
9	1378844-01		WASHER, CAPSTAN OIL SLINGER		2									
10	1378845-01		BELT, CAPSTAN DRIVE		1									
11	1378847-03		PULLEY, CAPSTAN		1									
12	1400691-03		CAPSTAN ASSEMBLY		-									
13	1400618-01		SHAFT PIVOT, PINCH ROLLER		1									
14	1378947-AB		SPACER, TAKE-UP MOTOR		2									
15	1378948-AA		SPACER, TAKE-UP MOTOR		2									
16	1378948-AB		SPACER, TAKE-UP MOTOR		2									
17	1378949-01		SPACER, BRAKE ASSEMBLY		3									
18	1400684-02		CAPSTAN ASSY, COATED		1									
19														
20	1400806-01		SPRING, DASHPOT COUPLING		-									
21	1379190-03		SPRING, DASHPOT COUPLING		2									
22	1379221-01		SOLENOID SHIELD		1									
23	1379222-01		MOTOR SHIELD		1									
24	1400531-01		CAPSTAN THRUST WAND ASSY		1									
25														
26	1400209-04		P.W. ASSEMBLY, AUDIO PREAMP		1									
27	1400231-02		P.W. ASSEMBLY, EDIT ERASE BOARD		1									
28														
29	1400590-01		P.W. ASSEMBLY, DIODE TERMINATION		1									
30														
31	1400601-02		COVER, PREAMP P.W. ASSEMBLY		1									
32	1400603-02		ENCLOSURE, PREAMP P.W. ASSEMBLY		1									
33	1400604-04		TOP PLATE		1									
34	1400606-03		HARNESS, TRANSPORT		1									
35	1400608-02		PLATE TENSION ARM		1									
36	1400609-01		BRACKET, SPRING ANCHOR		1									
37	1400610-01		MOTOR ASSEMBLY, SUPPLY REEL		1									

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1400665	AG	SHEET 2 OF 7											
ITEM NO	PART NUMBER	DESCRIPTION			REF DESIG	QTY REQD PER DASH NUMBER													
					-01														
38	1400620-02	CAPSTAN MOTOR ASSEMBLY			1														
39																			
40	1400640-02	PINCH ROLLER SOLENOID ASSEMBLY			1														
41																			
42	1400660-02	MOTOR ASSEMBLY, TAKE-UP REEL			1														
43	1400670-02	TENSION ARM ASSEMBLY			1														
44	1400675-02	PRINTED WIRING ASSEMBLY, TENSION ARM AND LED			1														
45	1400680-01	DASH POT ASSEMBLY			1														
46	1400656-02	IDLER ASSEMBLY			-														
47	1400634-02	PARKING BRAKE ASSEMBLY			2														
48	1400700-04	STANCHION, CAPSTAN			1														
49	1400710-01	ARM ASSEMBLY, PINCH ROLLER			1														
50	1400740	TIMER IDLER ASSEMBLY, 60 HZ			REF														
51	1400649-02	STOP, AUDIO HEAD ASSEMBLY			1														
52	1400801	3 CHANNEL AUDIO ASSEMBLY			REF														
53	1400770-04	LONG HD., VIDEO ERASE			1														
54	1400797-03	BRAKE ASSEMBLY, CAPSTAN FLYWHEEL			1														
55	1401099	SCANNER ASSEMBLY			REF														
56	1400743	TIMER IDLER ASSY, 50 HZ			REF														
57	1407631-02	SPACER, PARKING BRAKE			3														
58	1407633-02	SPACER, SUPPLY MOTOR			2														
59	1407634-02	SPACER, SUPPLY MOTOR			2														
60	1407640-02	SPACER, SUPPLY MOTOR			2														
61	1400655-02	FLUTTER IDLER ASSY			1														
62	1400641-03	FLYWHEEL, FLUTTER IDLER			1														
63	1400647-03	FLUTTER IDLER BRAKE ASSY			1														
64																			
65	6000035-01	LABEL, IDENTIFICATION			1														
66																			
67	7206061-02	THRUST BEARING			1														
68	4010825-02	OIL, KIT			1														
69	1400650-04	IDLER ASSEMBLY			1														
70	1400748-01	REVERSE SPRING			1														
71	471-328	SCREW, FHM, 4-40 X .375			1														
72	496-004	NUT, LOCKING, ASSEM. WASHER			1														
73																			
74																			
75																			
76	018-454	LOCTITE 601			A/R														
77	018-458	LOCTITE 222			A/R														
78																			
79	087-579	OIL, LUBRICATING			-														
80	087-581	LUBRICANT, DRY FILM			A/R														
81	087-770	LUBRICANT, GREASE			A/R														
82																			

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400665	AG	SHEET 3 OF 7									
ITEM NO	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER												
					-01												
83	280-007		SPACER, NO. 8, .375 LG		1												
84	280-924		SPACER, THREADED, STUD 6-32, .625 LG		2												
85	281-199		COLLAR, SET SCREW 6-32		1												
86																	
87	302-160		CLAMP, .250 I.D.		1												
88	302-200		CLAMP, .375 I.D.		3												
89																	
90	302-088		CLAMP CABLE, .500 I.D.		1												
91																	
92	352-457		SPRING, EXTENSION		1												
93	352-460		SPRING, EXTENSION		1												
94																	
95	420-063		BEARING, BALL FLANGED, .250 BORE		2												
96	470-020		SCREW, CAP, HEX SOC., 6-32 X .500 LG		2												
97	430-006		RING, RETAINING, .312 DIAMETER SHAFT		1												
98	430-091		RING, RETAINING, EXTERNAL "E", .312 DIAMETER		2												
99	470-023		SCREW, CAP, HEX SOC 6-32 X .875		3												
100	470-021		SCREW, CAP HEX SOC., 6-32 X .625 LG		3												
101	470-029		SCREW, CAP, HEX SOC., 8-32 X .500 LG		2												
102	470-030		SCREW, CAP, HEX SOC., 8-32 X .625 LG		7												
103	470-039		SCREW, CAP, HEX SOC. 10-32 X .625 LG		1												
104	470-032		SCREW, CAP, HEX SOC, 8-32 X .875 LG		1												
105	470-031		SCREW, CAP, HEX SOC. 8-32 X .750		2												
106	471-059		SCREW, PAN HD., XREC, 4-40 X .188 LG		3												
107	471-068		SCREW, PAN HD., XREC, 6-32 X .312 LG		2												
108	471-069		SCREW, PAN HD., XREC, 6-32 X .375 LG		4												
109	471-071		SCREW, PAN HD., XREC, 6-32 X .500 LG		5												
110	470-018		SCREW, CAP, HEX SOC, 6-32 X .375		3												
111	471-078		SCREW, PAN HD., XREC, 8-32 X .375 LG		7												
112	471-080		SCREW, PAN HD., XREC, 8-32 X .500 LG		7												
113	471-092		SCREW, PAN HD., XREC, 10-32 X .875 LG		3												
114	470-617		SCREW CAP HEX SOC 8-32 X 1.125 LG		2												
115	471-343		SCREW, FLAT HEAD, XREC, 8-32 X .250 LG		2												
116	471-474		SCREW, PAN HD., XREC, 8-32 X 1.500 LG		3												
117	471-864		SCREW, PAN HD., XREC, 10-32 X 1.250 LG		4												
118																	
119																	
120	472-432		SCREW, PAN HD., XREC, 10-32 X 2.00 LG		4												
121	473-333		SCREW PAN HD ASSEM WASHER 8-32 X .750		2												
122	473-966		SCREW, BINDER HD., 10-32 X .250 LG		1												
123																	
124	476-356		SCREW, CAP SHOULDER, 8-32 X .188 LG		1												
125	477-496		SCREW, SET, HEX SOC, CUP PT 6.32 X .188		1												
126	477-501		SCREW, SET HEX SOC., CUP PT, 8-32 X .188 LG		-												
127																	

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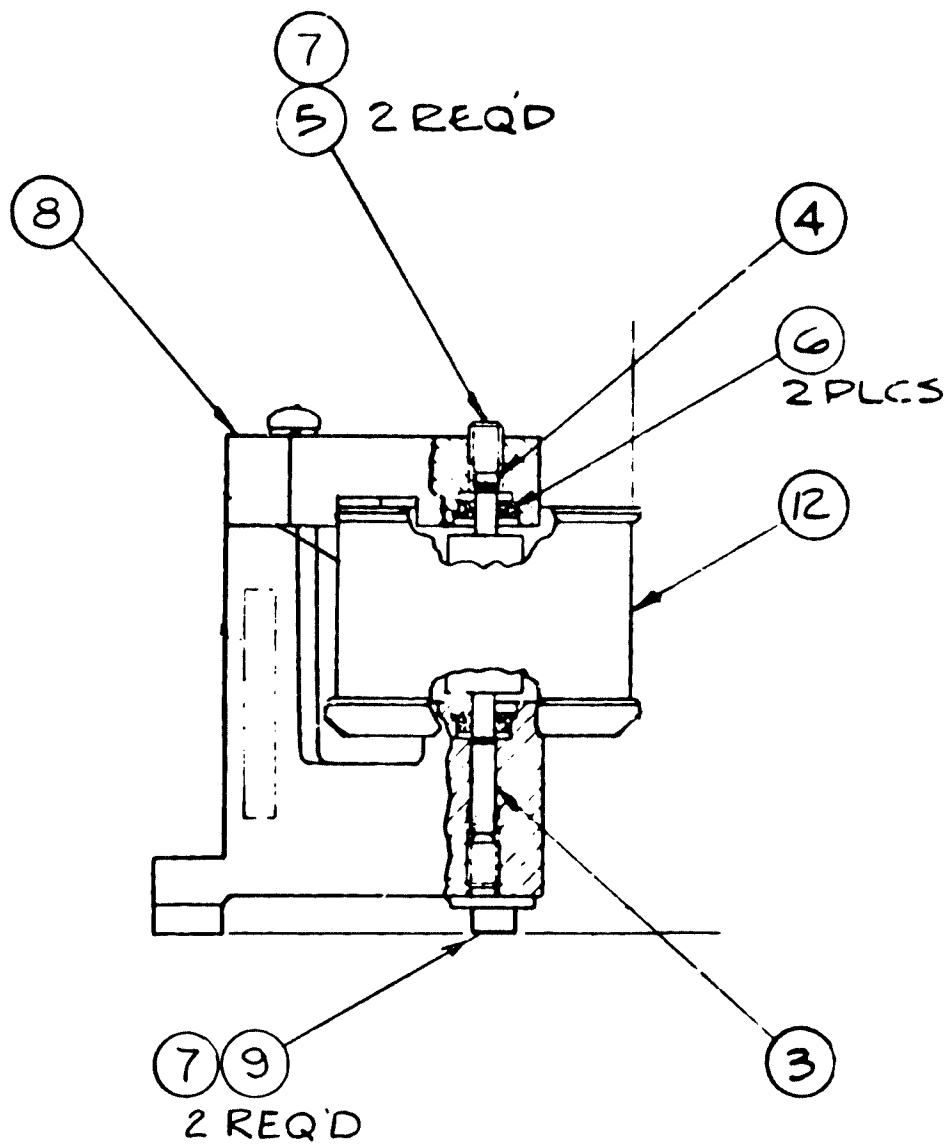




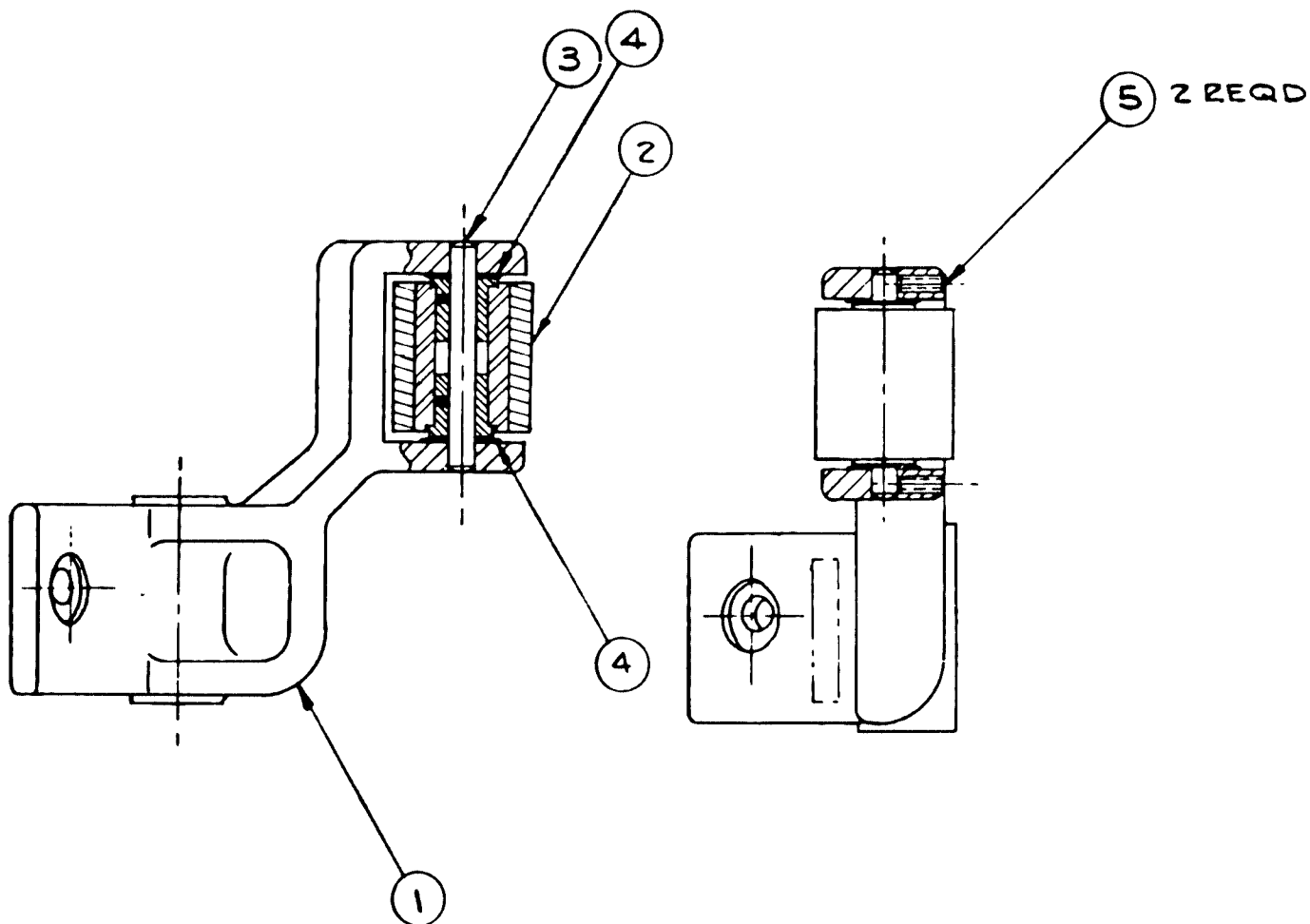
SCHEMATIC

-	8	460-003	RIVET, OVAL HD., TUBULAR .125 DIA X .156 LG
1	7	501-169	WASHER, PLAIN, #4
1	6	496-004	NUT, #4-40, LOCKING, ASSEMBLE WASHER
1	5	471-061	SCREW, MACH, PAN HD, #4-40 X .312
1	4	290-186	BRACKET
1	3	135-045	HEADER ASSY, 6 Pcs
1	2	013-678	DIODE, CD451, 1N4385 REF: CR1
-01	1		
-01	ITEM NO.	PART NUMBER	DESCRIPTION

Assembly No. 1400590-01H. Diode Termination PWA



Assembly No. 1400650-04P. Idler Assembly

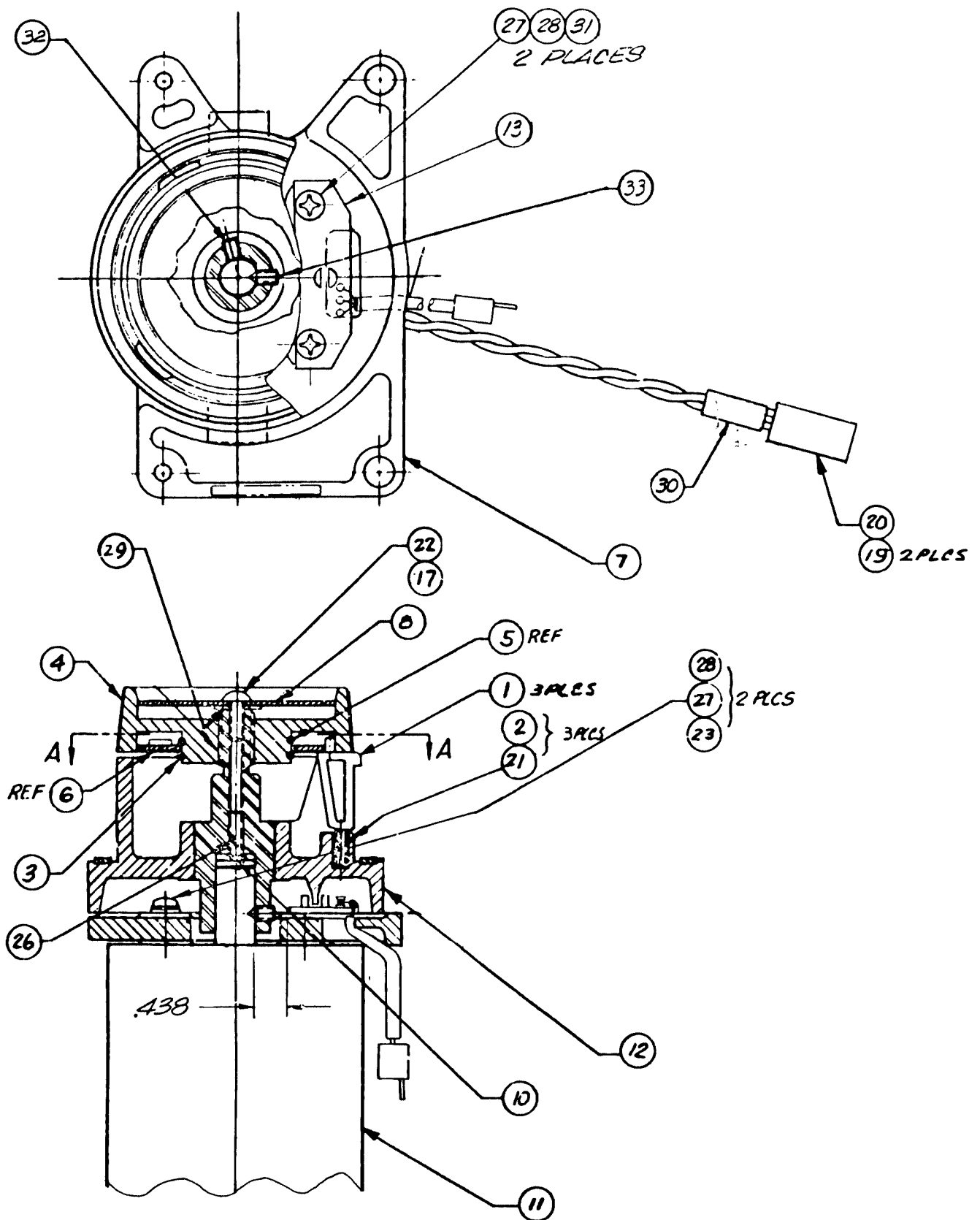


A/R	6	087-579		LUBRICANT, OIL
2	5	477-491		SCREW, SET, CUP PT, HEX SOC. 4-40x.25LG
2	4	1378896-01		WASHER, DELRIN .010THK
1	3	421-378		BEARING, NEEDLE
1	2	1378726-01		PINCH ROLLER
1	1	1378725-01		ARM, PINCH ROLLER
QI	ITEM NO	PART NUMBER		DESCRIPTION

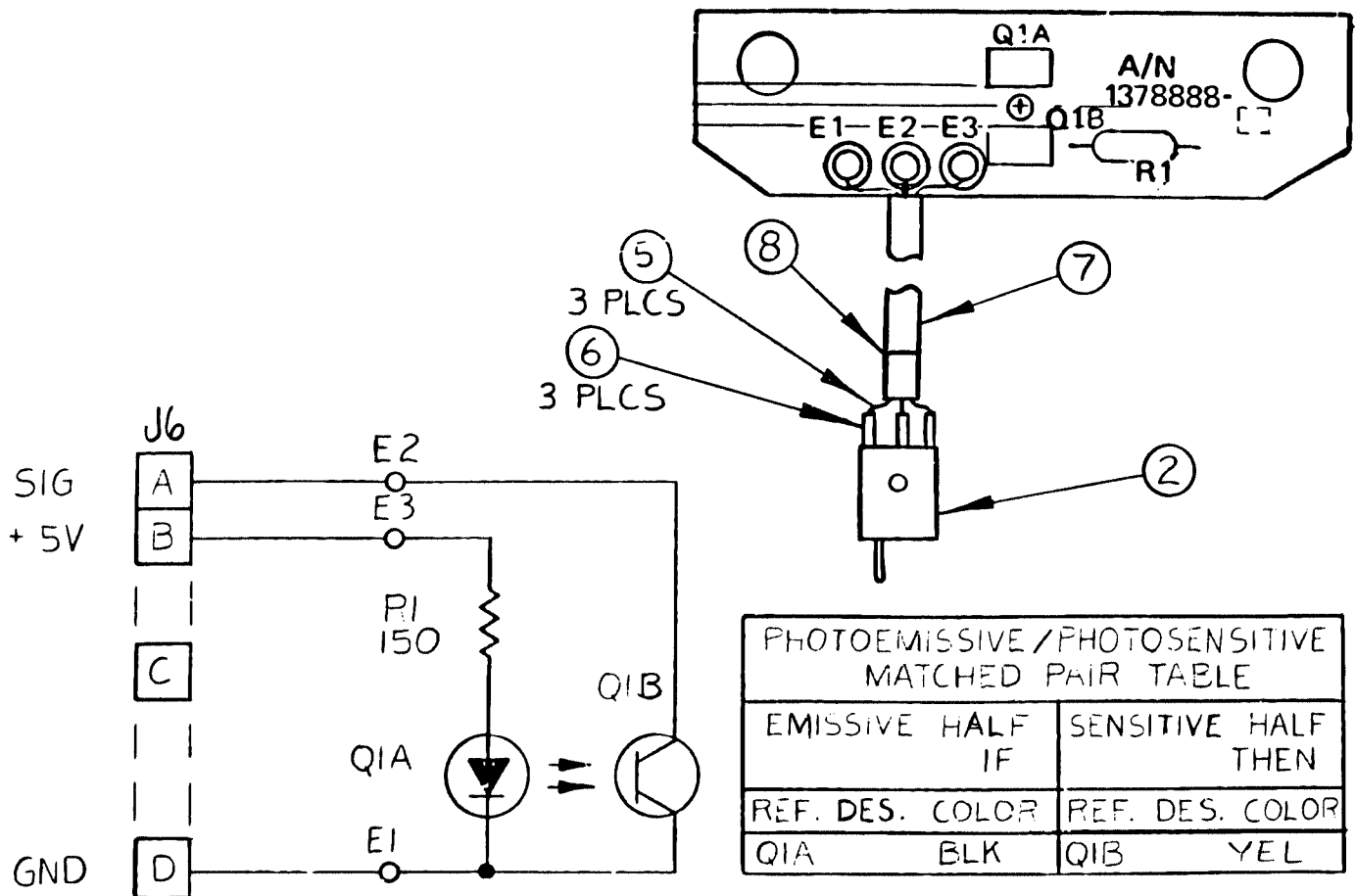
Assembly No. 1400710-01D. Pinch Roller Arm Assembly

NEXT HIGHER ASSEMBLY 1400665

ITEM NO.	PART NUMBER	D	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
					-01.									
1	52372-01		FINGER, HOLD DOWN		3									
2	52386-01		SPRING, FINGER HOLD DOWN		3									
3	52391-01		SPRING, CAM ACTUATOR RETAINING		1									
4	1243036-01		KNOB, REEL		1									
5	1243068-01		SPRING, ENERGIZING		1									
6	1243069-01		CAM, ACTUATOR		1									
7	1378730-05		PLATE, MOTOR MOUNT		1									
8	1378861-01		RETAINER		1									
9														
10	1378864-01		DISC, REEL MOTOR		1									
11	4590031-05		MOTOR, REEL DRIVE		1									
12	1400528-02		TURN TABLE & PAD ASSY.		1									
13	1378888-03		PWA, REEL TACHOMETER		1									
14														
15														
16														
17	018-458		ADHESIVE: THD LOCKING, LOCTITE, 222	A/R										
18	018-770		GREASE: MOLYLUBE	A/R										
19	166-227		CONTACT, PIN 16-18 GA	2										
20	167-450		CONNECTOR, PLUG 3 POS MDA P2	1										
21	408-133		PIN; SPRING, ROLL, .094 DIA X .875 LG	3										
22	470-531		SCREW, BUTTON HD, ALLEN, 10-32 X .50 LG	1										
23	471-091		SCREW, PAN HD, MACH, 10-32 X .75 LG	2										
24	477-507		SCREW, SET, CUP PT, 10-32 X .25 LG	-										
25	477-564		SCREW, SET, CONE PT, 10-32 X .25 LG	-										
26	477-632		SCREW, SET, 1/2 DOG PT, 10-32 X .62 LG	1										
27	501-203		WASHER, FLAT, NO. 10, .375 OD	4										
28	502-005		WASHER, LOCK, SPLIT, NO. 10	4										
29	503-021		WASHER, PLAIN NYLON .313 ID X .63 OD X .031 THK	1										
30	600-255		SLEEVING, PLASTIC, SHRINKABLE, BLK, .250 OD	A/R										
31	471-092		SCREW, PAN, HD, MACH 10-32 X .875 LG	2										
32	477-535		SCREW, SET; CUP PT; 10-32 X .25 LG; CORROSION RESISTANT	1										
33	477-594		SCREW, SET; CONE PT; 10-32 X .25 LG; CORROSION RESISTANT	1										



Assembly No. 1400619-01F. Supply Reel Motor Assembly

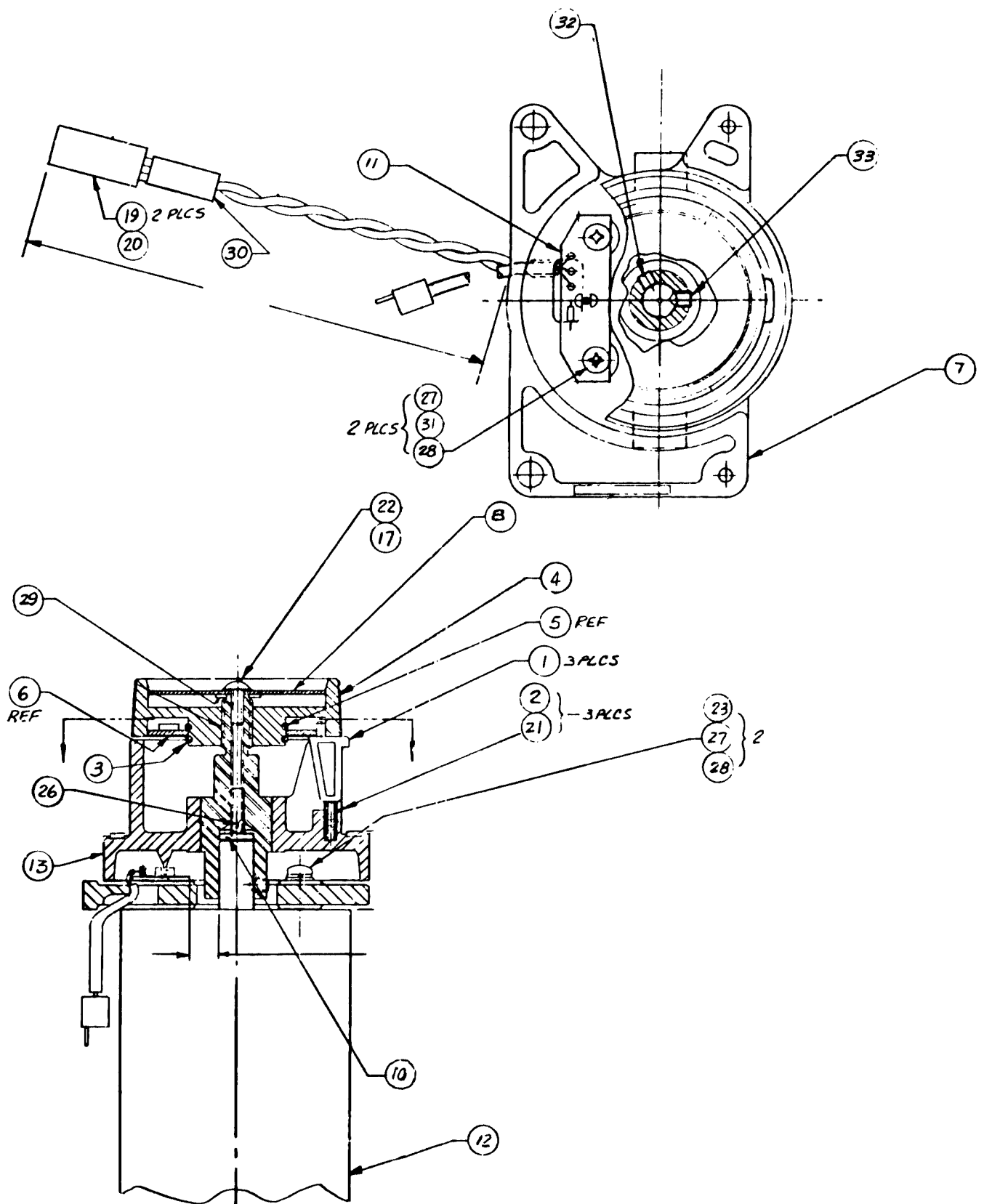


SCHEMATIC

A/R	A/R	8	296-004	LACING, NYLON, BLACK	
A/R	A/R	7	600-017	TUBING, PVC, CLEAR, .106 I.D.	
A/R	A/R	6	600-999	TUBING, THERMAL SHRINK, 1/16 I.D.	
A/R	A/R	5		WIRE, STRANDED, 24 AWG	
1	1	4	581-454	OPTICAL SWITCH, MATCHED PAIR	Q1
1	1	3	066-813	RESISTOR, FIXED, CF 150Ω, 1/4 W, 5%	R1
1	1	2	139-846	CONNECTOR, 4 POS	J6
		1			
-03	-01	ITEM NO.	PART NUMBER	DESCRIPTION	
PARTS LIST					

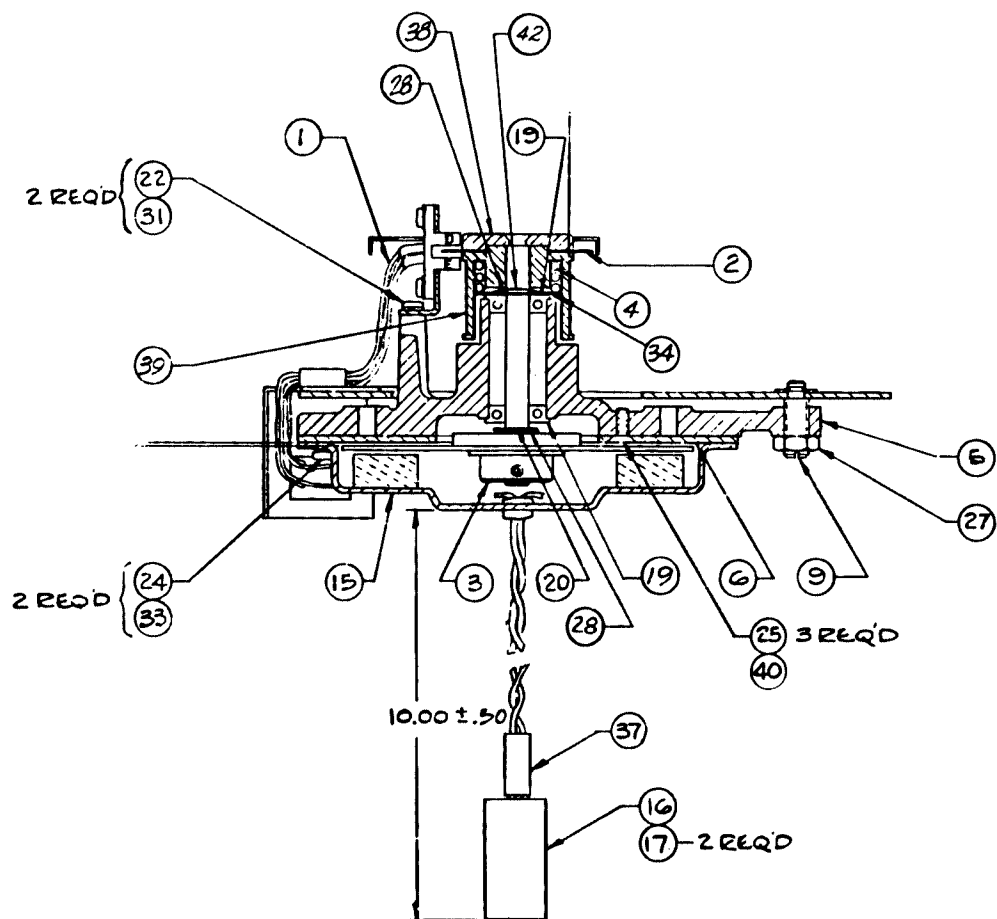
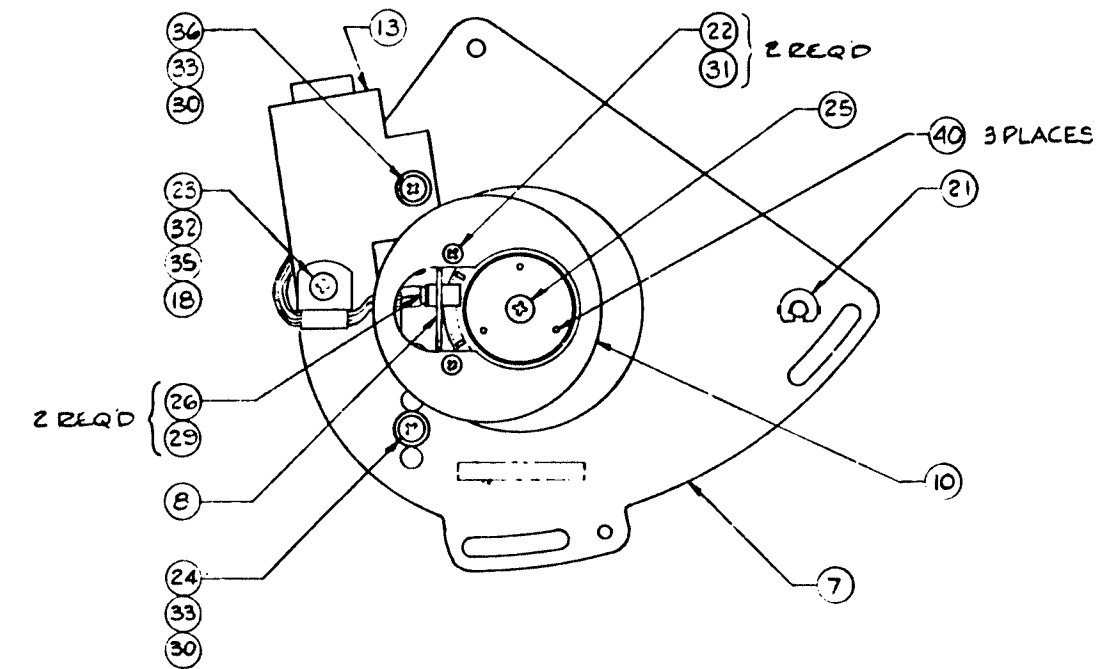
Assembly No. 1378888-03J. Take-Up Reel Tachometer PWA, w/Schematic

ITEM NO.	PART NUMBER	D	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
					-0	-02								
1	52372-01		FINGER, HOLD DOWN 5.80 12 ea		3	3								
2	52386-01		SPRING, FINGER HOLD DOWN .120 12 ea		3	3								
3	52391-01		SPRING, CAM ACTUATOR RETAINING 1.40 5 ea		1	1								
4	1243036-01		KNOB, REEL		1	1								
5	1243068-01		SPRING, ENERGIZING		1	1								
6	1243069-01		CAM, ACTUATOR		1	1								
7	1378730-05		PLATE, MOTOR MOUNT		1	1								
8	1378861-01		RETAINER		1	1								
9	1378862-02		TURNTABLE, REEL		-	-								
10	1378864-01		DISC, REEL MOTOR		1	1								
11	1378888-03		PWA, REEL TACHOMETER		1	1								
12	4590031-05		MOTOR, REEL DRIVE		1	1								
13	1400528-02		TURNTABLE & PAD ASSY.		1	1								
14														
15														
16														
17	018-458		ADHESIVE; THD LOCKING, LOCTITE, 222	A/R	A/R									
18	087-770		GREASE; MOLYLUBE	A/R	A/R									
19	166-227		CONTACT, PIN 16-18 GA	2	2									
20	167-450		CONNECTOR, PLUG 3 POS MDA-P1		1	1								
21	408-133		PIN; SPRING, ROLL, .094 DIA X .875 LG .12	3	3									
22	470-531		SCREW; BUTTON HD, ALLEN, 10-32 X .50 LG		1	1								
23	471-091		SCREW; PAN HD, MACH, 10-32 X .75 LG	2	2									
24	477-507		SCREW; SET, CUP PT, 10-32 X .25 LG		-	-								
25	477-564		SCREW; SET, CONE PT, 10-32 X .25 LG		-	-								
26	477-632		SCREW; SET, 1/2 DOG PT, 10-32 X .62 LG		1	1								
27	501-203		WASHER, FLAT, NO. 10, .375 OD	4	4									
28	502-005		WASHER, LOCK, SPLIT, NO. 10	4	4									
29	503-021		WASHER, PLAIN NYLON .313 ID X .630 OD .031 THK		1	1								
30	600-255		SLEEVING, PLASTIC, SHRINKABLE, BLK, .250 ID	A/R	A/R									
31	471-092		SCREW, PAN HD, MACH, 10-32 X .875 LG	2	2									
32	477-535		SCREW, SET: CUP PT; 10-32 X .25 LG: CORROSION RESISTANT		1	1								
33	477-594		SCREW, SET: CONE PT; 10-32 X .25 LG: CORROSION RESISTANT		1	1								

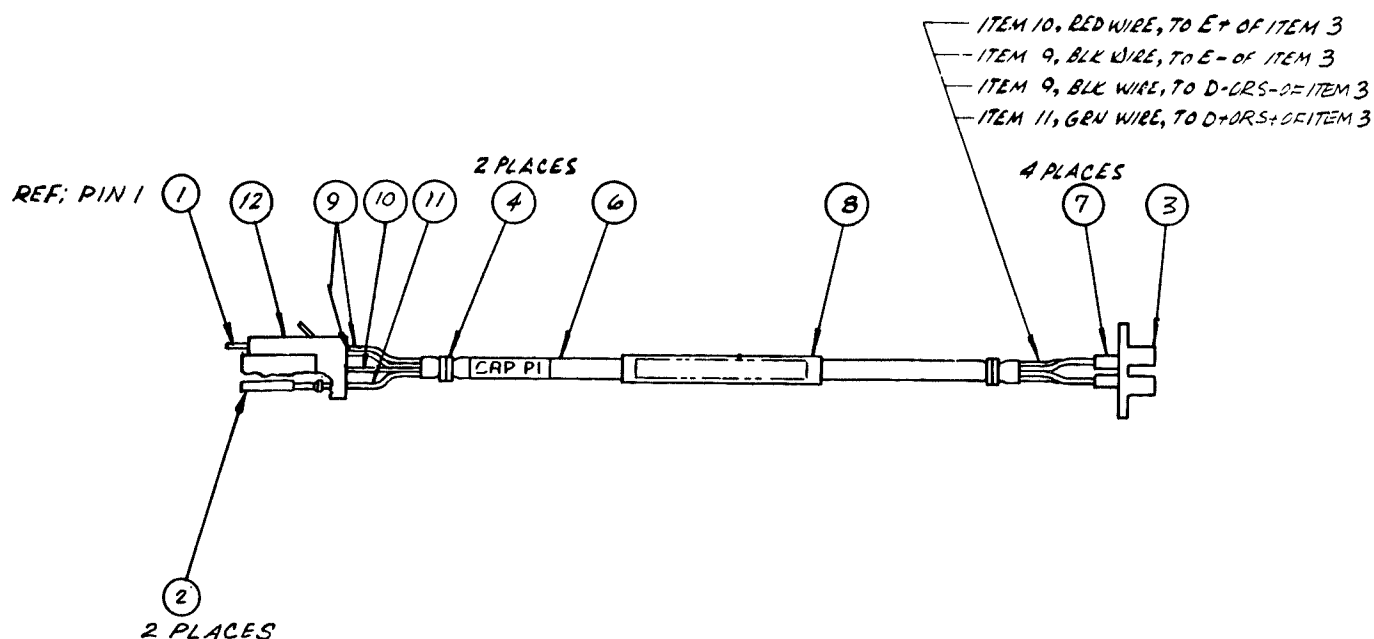


Assembly No. 1400660-02N. Takeup Reel Motor Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER										
				-01	-02									
1	1379053-02	OPTICAL SWITCH ASSY		1	1									
2	1378715-01	DISC. COUNTER		1	1									
3	1378738-01	ROTOR ASSY		1	1									
4	1378848-01	SPRING, CAPSTAN		1	1									
5	1378851-01	HOUSING, CAPSTAN MOTOR		1	1									
6	1378852-01	PLATE, FRONT		1	1									
7	1378853-01	PLATE, MOTOR MTG		1	1									
8	1378854-01	BRACKET, CAPSTAN - DUAL SENSOR		1	1									
9	1378855-01	SCREW, ADJUSTING		1	1									
10	1378856-01	SHROUD, TACH DUAL SENSOR		1	1									
11	1378857-01	CAP, PULLEY		1	-									
12	1378858-01	PULLEY, CAPSTAN ASSY		1	-									
13	1378680-01	BRACKET, CONN		1	1									
14	018-458	ADHESIVE; THD LOCKING, LOCTITE, 222		A/R	-									
15	7596045-01	BRUSH PLATE, PANCAKE MOTOR		1	1									
16	167-450	CONNECTOR, PLUG, 3 POS	MDA P3	1	1									
17	166-227	CONTACT, PIN 16-18 GA		2	2									
18	302-175	CLAMP, CABLE, NYLON		1	1									
19	425-015	BEARING ASSY .625 OD, .250 ID FLANGED		2	2									
20	430-381	RETAINING RING "E" .250		1	1									
21	430-519	RETAINING RING, BOWED, PRONG-LOCKING		1	1									
22	471-060	SCREW, PAN HD XREC, 4-40 X .250 LG		4	4									
23	471-068	SCREW, PAN HD XREC, 6-32 X .312 LG		1	1									
24	471-078	SCREW, PAN HD XREC, 8-32 X .375 LG		4	4									
25	471-336	SCREW, FLAT HD XREC, 6-32 X .375 LG		4	4									
26	472-113	SCREW, PAN HD XREC, 2-56 X .250 LG		2	2									
27	492-037	NUT, PLAIN, HEX 1/4-28		1	1									
28	501-058	WASHER, SHIM .250 ID, .375 OD, .010 THK, BRS		2	2									
29	501-155	WASHER, PLAIN #2		2	2									
30	501-205	WASHER, PLAIN #8		2	2									
31	502-002	WASHER, LOCK #4		4	4									
32	502-003	WASHER, LOCK #6		1	1									
33	502-004	WASHER, LOCK #8		4	4									
34	502-416	WASHER, PLAIN, .256 ID., .875 OD., .030 THK		1	1									
35	506-013	WASHER, "D"		1	1									
36	471-080	SCREW, PAN HD, XREC, 8-32 X .500 LG		1	1									
37	600-255	SLEEVING, PLASTIC, SHRINKABLE, BLK, .250 ID		A/R	A/R									



Assembly No. 1400620-02H. Capstan Motor Assembly



1	1	12	167-451		CONNECTOR	
A/R	A/R	11	611-428		WIRE, STRANDED, INSULATED, 24 AWG, GRN	
A/R	A/R	10	611-268		WIRE, STRANDED, INSULATED, 24 AWG, RED	
A/R	A/R	9	611-208		WIRE, STRANDED, INSULATED, 24 AWG, BLK	
A/R	A/R	8	600-090		SLEEVING, POLYOLEFIN, SHRINKABLE, BLK, .187 ID	
A/R	A/R	7	600-252		SLEEVING, PVC, SHRINKABLE, BLK, .093 ID	
A/R	A/R	6	600-013		SLEEVING, PVC, FLEXABLE, CLEAR, .133 ID	
-	1	5	581-337		OPTICALLY COUPLED ISOLATOR	
A/R	A/R	4	296-004		LACING, NYLON, BLACK, 50 POUNDS TEST	
1	1	3	581-654		OPTICALLY COUPLED SWITCH	
2	2	2	166-224		CONNECTOR PART, CONTACT, SOC 26-24	
1	1	1	166-200		CONNECTOR PART, CONTACT, PIN, 22-20	
-02	-01	ITEM NO.	PART NUMBER		DESCRIPTION	

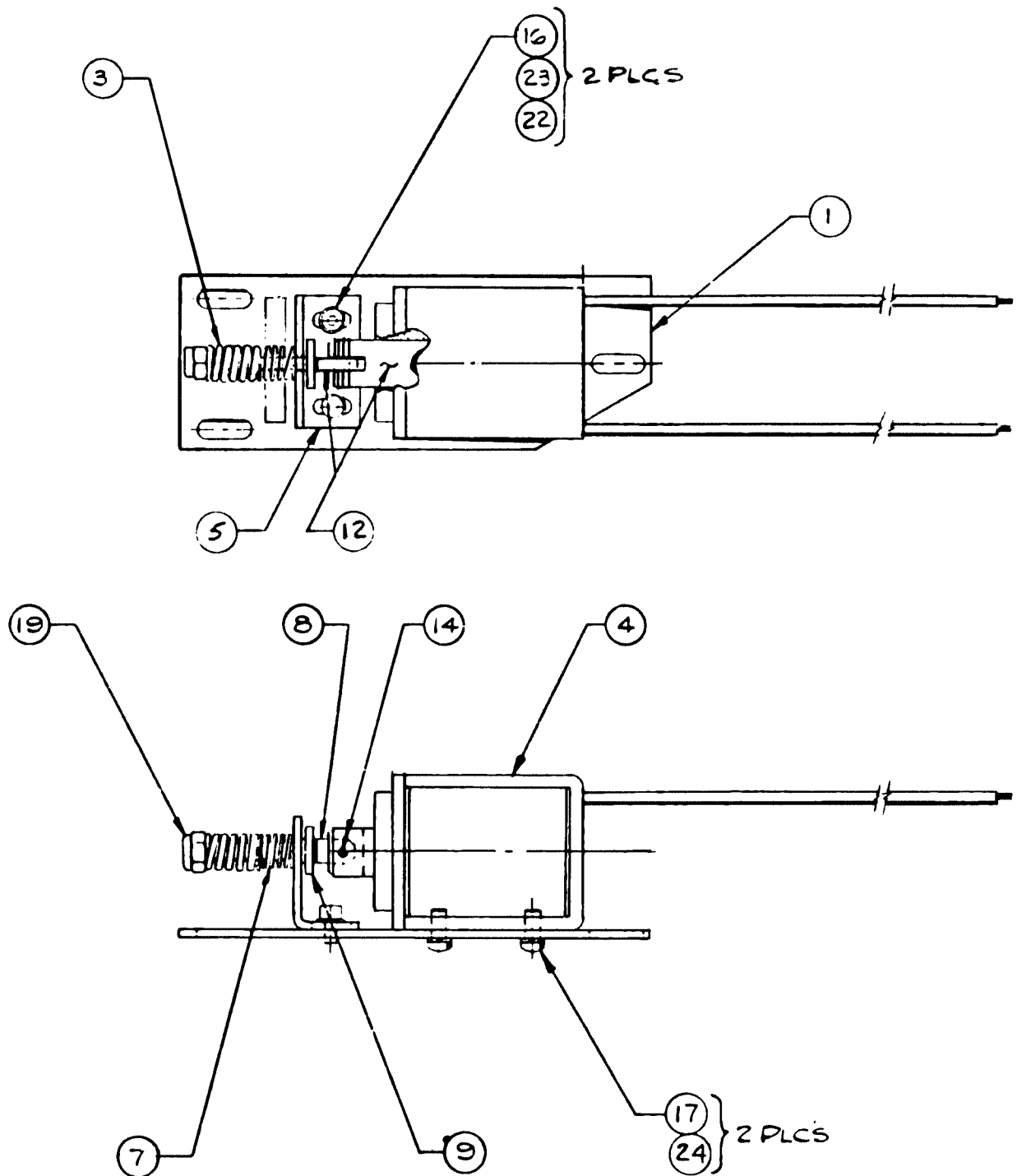
Assembly No. 1379053-02F. Optical Switch Assembly

1400640-02

PINCH ROLLER SOLENOID ASSEMBLY
NEXT HIGHER ASSEMBLY 1400665

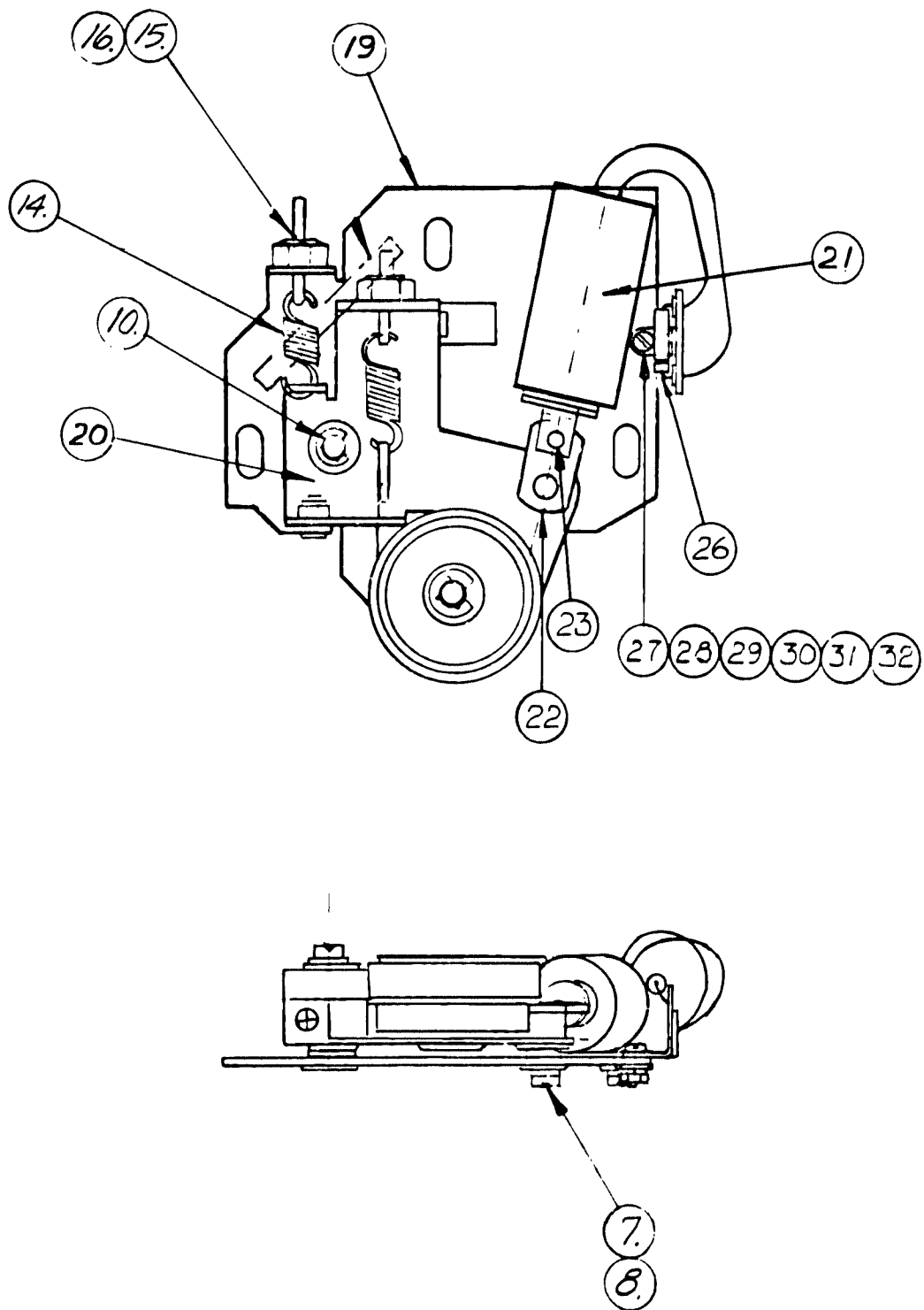
REV. E

[illegible]

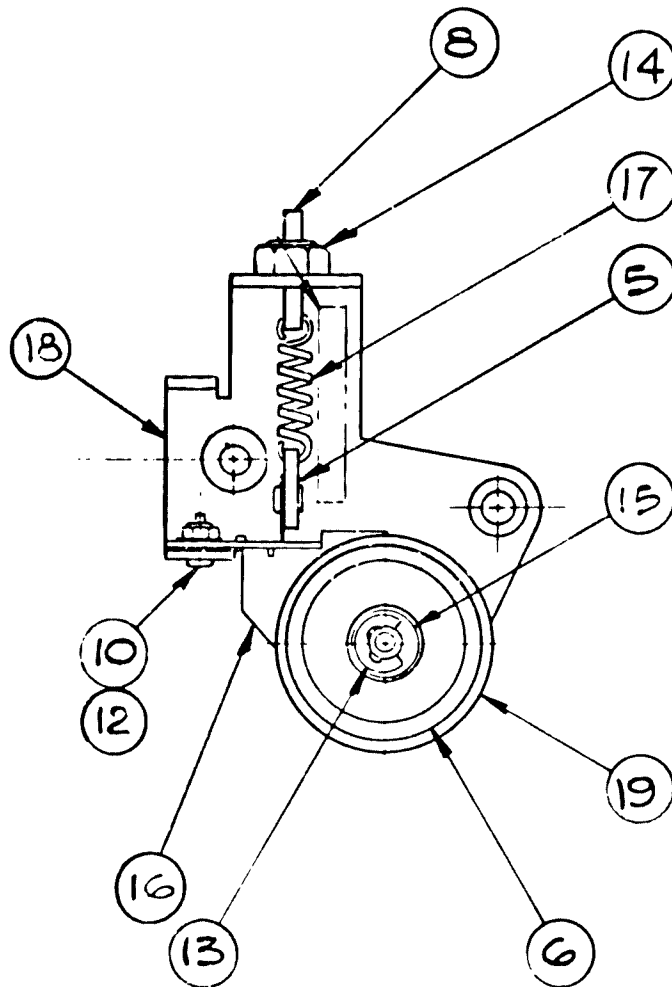


Assembly No. 1400640-02E. Pinch Roller Solenoid Assembly

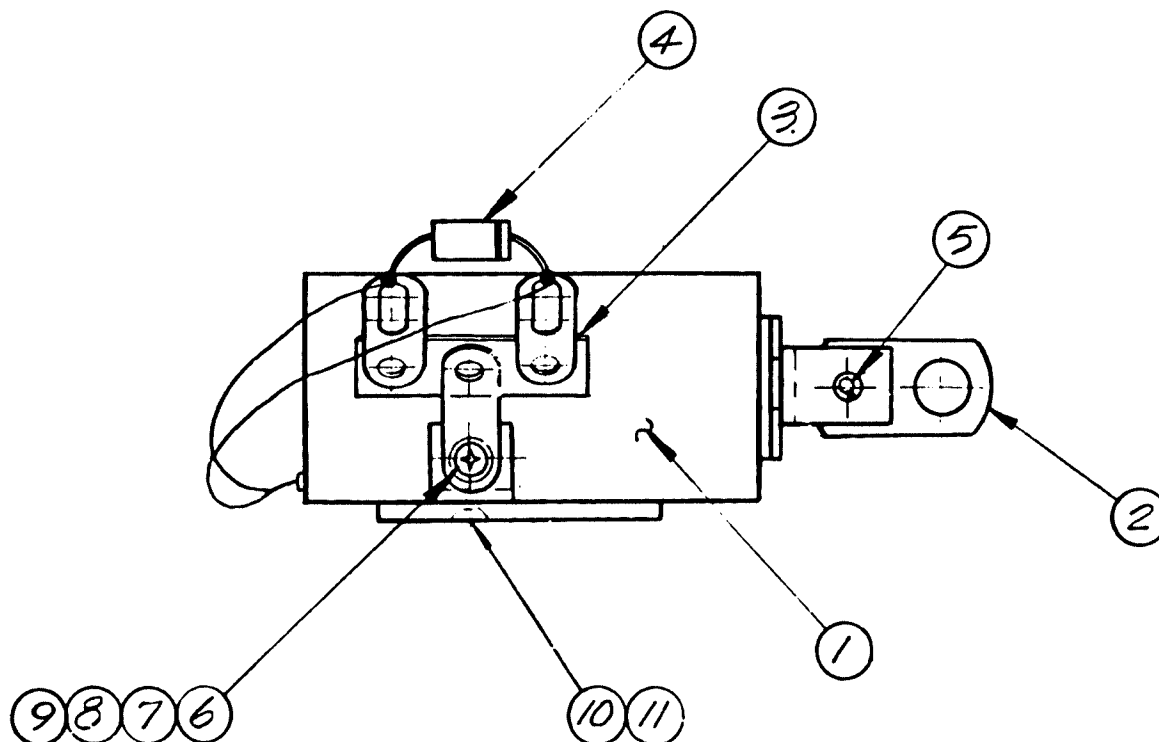
ITEM NO.	PART NUMBER	C	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
					-01	-02										
1	1400637-01		BASE, BRAKE		1	-										
2	1378873-01		ARM ASSY, BRAKE		1	-										
3	1400633-01		SOLENOID ASSY, BRAKE		1	-										
4	1378870-01		STUD, PIVOT		1	-										
5																
6																
7	471-059		SCREW, PAN HD #4-40 X .188 LG		2	2										
8	502-002		WASHER, LOCK #4		2	2										
9																
10	430-090		RING, RETAINING, E-TYPE .188		1	1										
11																
12	087-770		LUBRICANT, GREASE		A/R	-										
13	087-581		LUBRICANT, DRY-FILM		A/R	-										
14	352-515		SPRING, EXTENSION .187 OD X .62FL, 32 LB/IN		1	1										
15	1378668-01		ROD, SPRING ANCHOR		1	1										
16	493-007		NUT LOCKING HEX #8		1	1										
17																
18																
19	1400637-02		BASE, BRAKE			1										
20	1378873-03		ARM ASSY, BRAKE			1										
21	1400616-02		SOLENOID			1										
22	1400632-01		LINK, SOLENOID			1										
23	406-043		ROLL PIN, .094 DIA X .250LG			1										
24																
25																
26	013-678		DIODE, CD451 <i>IN 4385</i>			1										
27	472-451		SCREW, MACH, PAN HD, 2-56 X .188LG			1										
28	502-001		WASHER, LOCK #2			1										
29	501-155		WASHER, PLAIN #2			1										
30	180-440		TERMINAL STRIP, 2 LUG			1										
31	018-458		LOCTITE #222			A/R										
32	492-007		NUT, HEX, 2-56			1										
33																
34																
35																
36																
37																



Assembly No. 1400634-02E. Parking Brake Assembly

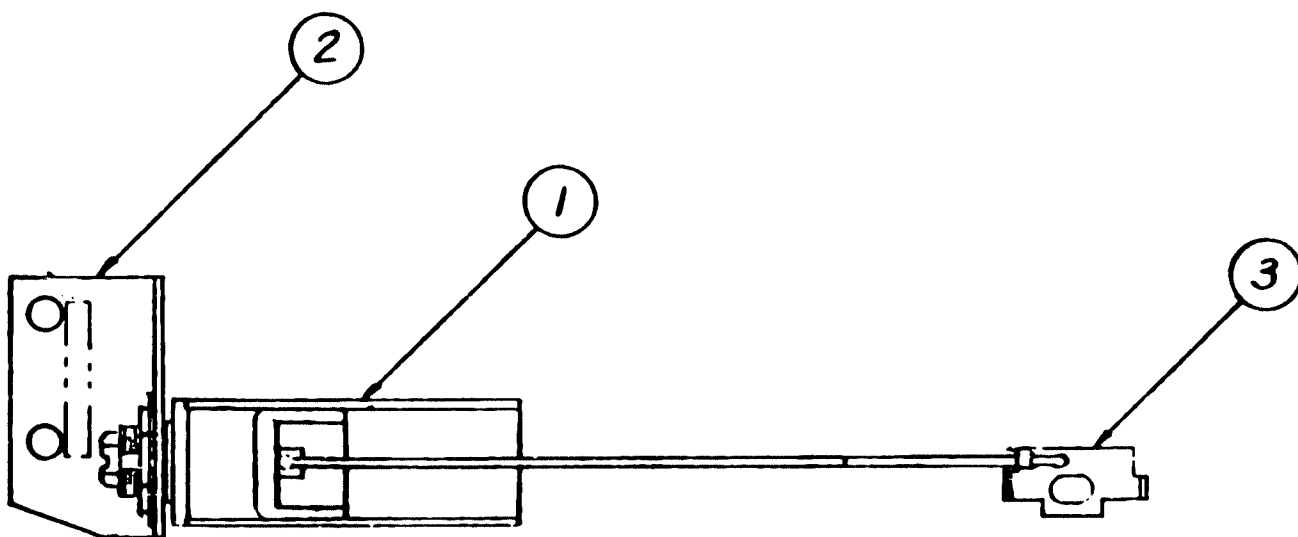


Assembly No. 1378873-03L. Brake Arm Assembly



42	11	018-458	LOCTITE #222	
1	10	472-460	SCREW, MACH, FLAT HD 2-56 x .125 LG	
1	9	1400633-02	BRACKET, SOLENOID TERMINAL	
1	8	502-001	WASHER, LOCK, #2	
1	7	501-155	WASHER, PLAIN, #2	
1	6	472-451	SCREW, MACH, PAN HD, 2-56 x .188 LG	
1	5	406-043	ROLL PIN, .094 DIA x .250 LONG	
1	4	013-678	DIODE CD451, 1N4385	
1	3	180-440	TERMINAL STRIP.	
1	2	1400632-01	LINK, SOLENOID	
1	1	1400616-02	SOLENOID, BRAKE	
-01	ITEM NO.	PART NUMBER		DESCRIPTION
PARTS LIST				

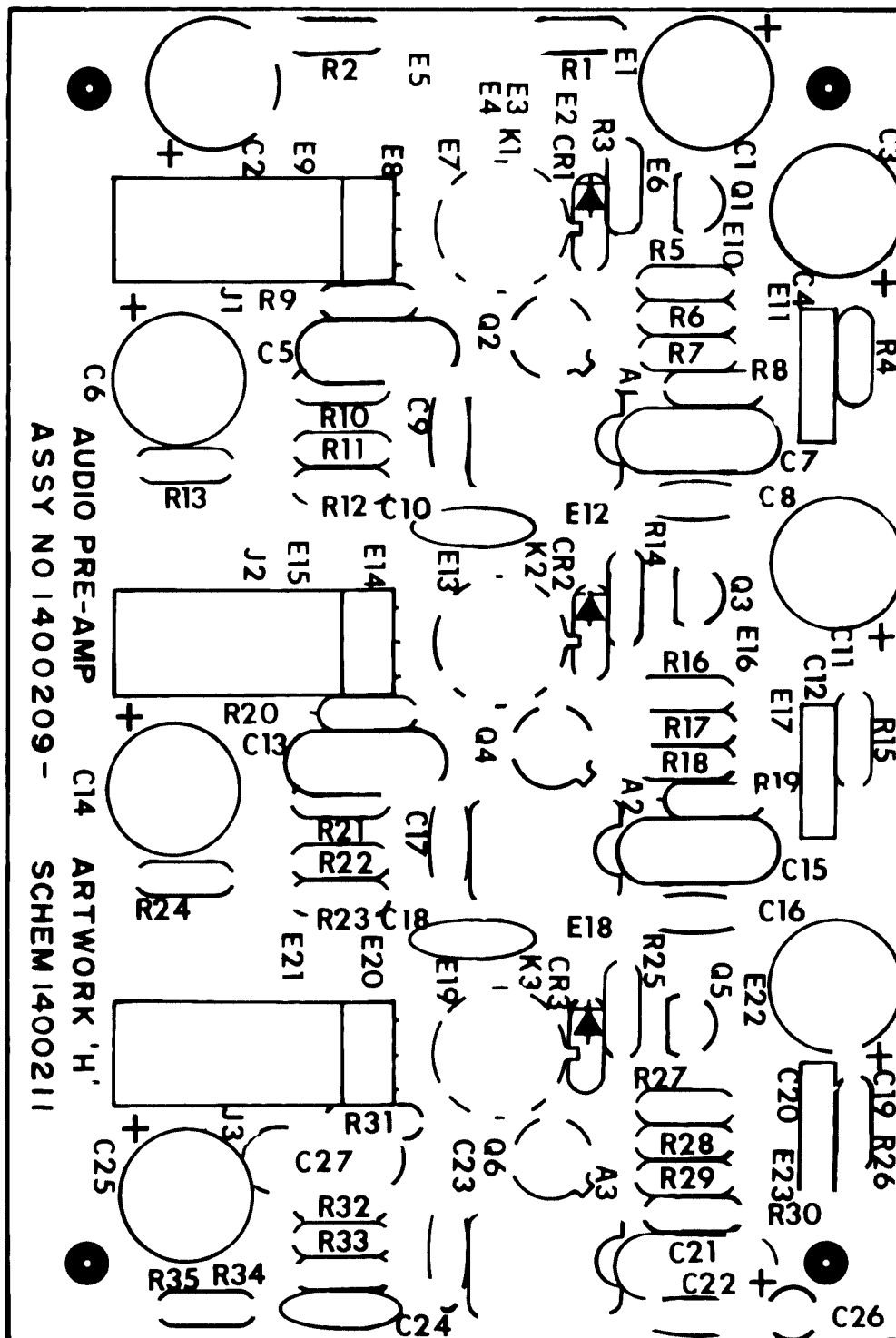
Assembly No. 1400633-01D. Brake Solenoid Assembly



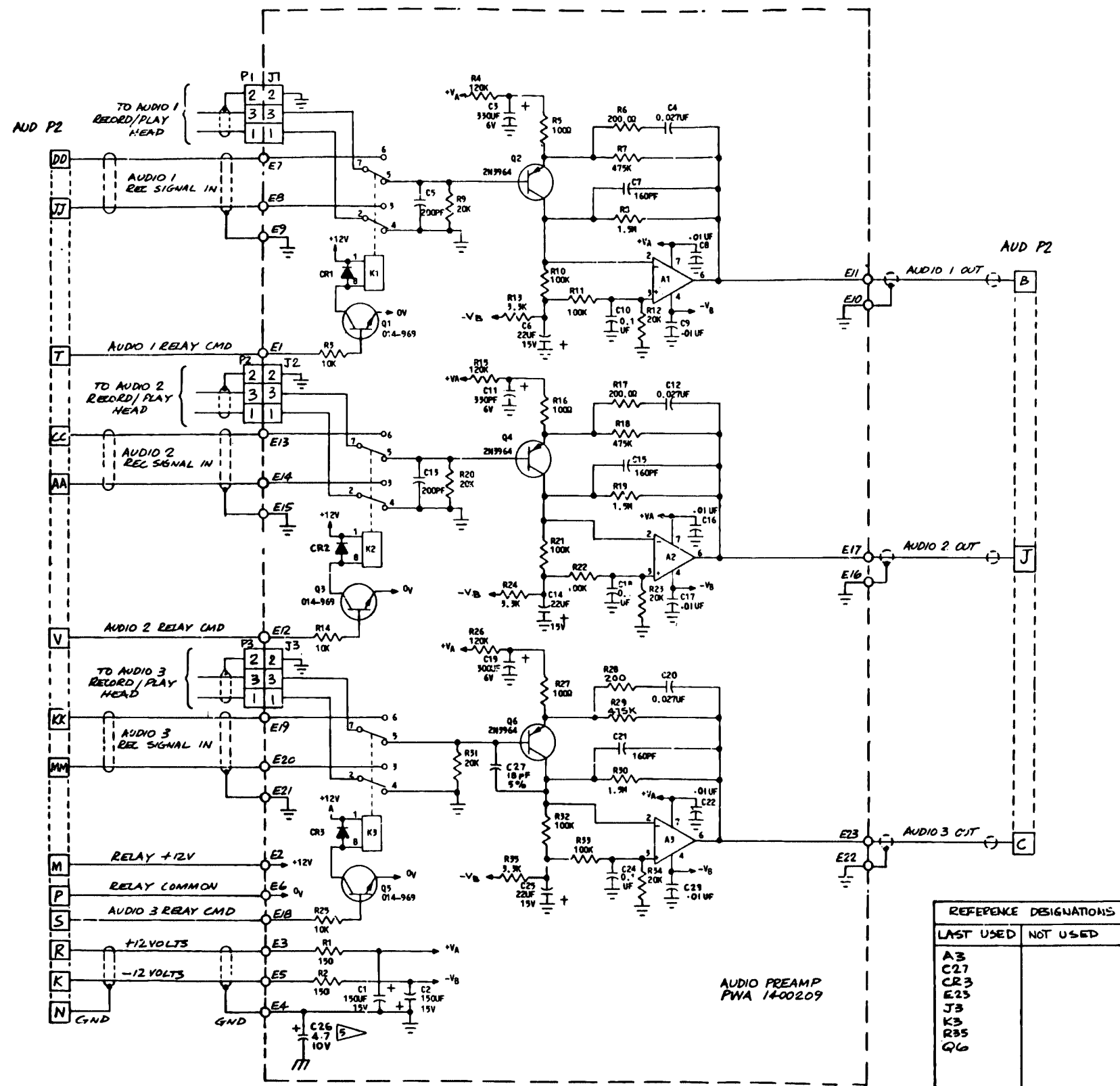
1	3	1379109-01	COUPLING, DASHPOT
1	2	1378671-01	BRACKET, DASHPOT
1	1	1378897-01	AIRPOT
01	ITEM NO	PART NUMBER	DESCRIPTION

Assembly No. 1400680-01D. Dashpot Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-04											
1															
2															
3	1400211	SCHEMATIC	E												
4															
5	1400212	HARNESS	REF												
6															
7															
8															
9															
10	064-062	CAPACITOR, CER., MONO., 0.1, 100V	C10,18,24	3											
11	064-116	CER., DISC., 01, 50V	C8,9,16,17,22,23	6											
12	034-206	MICA, 18pF, 500V, 5%	C27	1											
13	034-286	MICA, 200pF, 500V, 5%	C5,13	-											
14	034-937	MICA, 160pF, 500V, 5%	C7,15,21	3											
15	034-286	MICA, 200pF, 500V, 5%	C5,13,26	-											
16	035-815	MYLAR, .027uF	C4,12,20	3											
17	034-286	MICA, 200pF, 500V, 5%	C5,13	2											
18	037-954	TANT., 22uF, 15V	C6,14,25	3											
19	037-960	TANT., 150uF, 15V	C1,2	2											
20	037-973	TANT., 330uF, 6V	C3,11,19	3											
21	037-962	CAPACITOR, TANT., 4.7uF, 10V	C26	1											
22															
23	013-689	DIODE, CD6016, 1N3600 (SELECT)	CR1-3	3											
24															
25															
26	590-601	INTEGRATED CIRCUIT, LF356 PRESTRESSED	AI-3	3											
27															
28															
29	020-915	RELAY, DPDT	K1-3	3											
30															
31															
32	066-720	RESISTOR, C.F., 3.3K OHMS, 1/4W, 5%	R13,24,35	3											
33	066-868	C.F., 120K 1/4W, 5%	R4,15,26	3											
34	076-014	C.F., 1.5M 1/4W, 5%	R8,19,30	3											
35	062-601	M.F., 100K 1/8W, 1%	R10,11,21,22,32,33	6											
36	062-693	M.F., 20K 1/8W, 1%	R9,12,20,23,31,34	6											
37	062-847	RESISTOR, M.F., 100 OHMS, 1/8W, 1%	R5,16,27	3											



Assembly No. 1400209-04P. Audio Preamplifier PWA

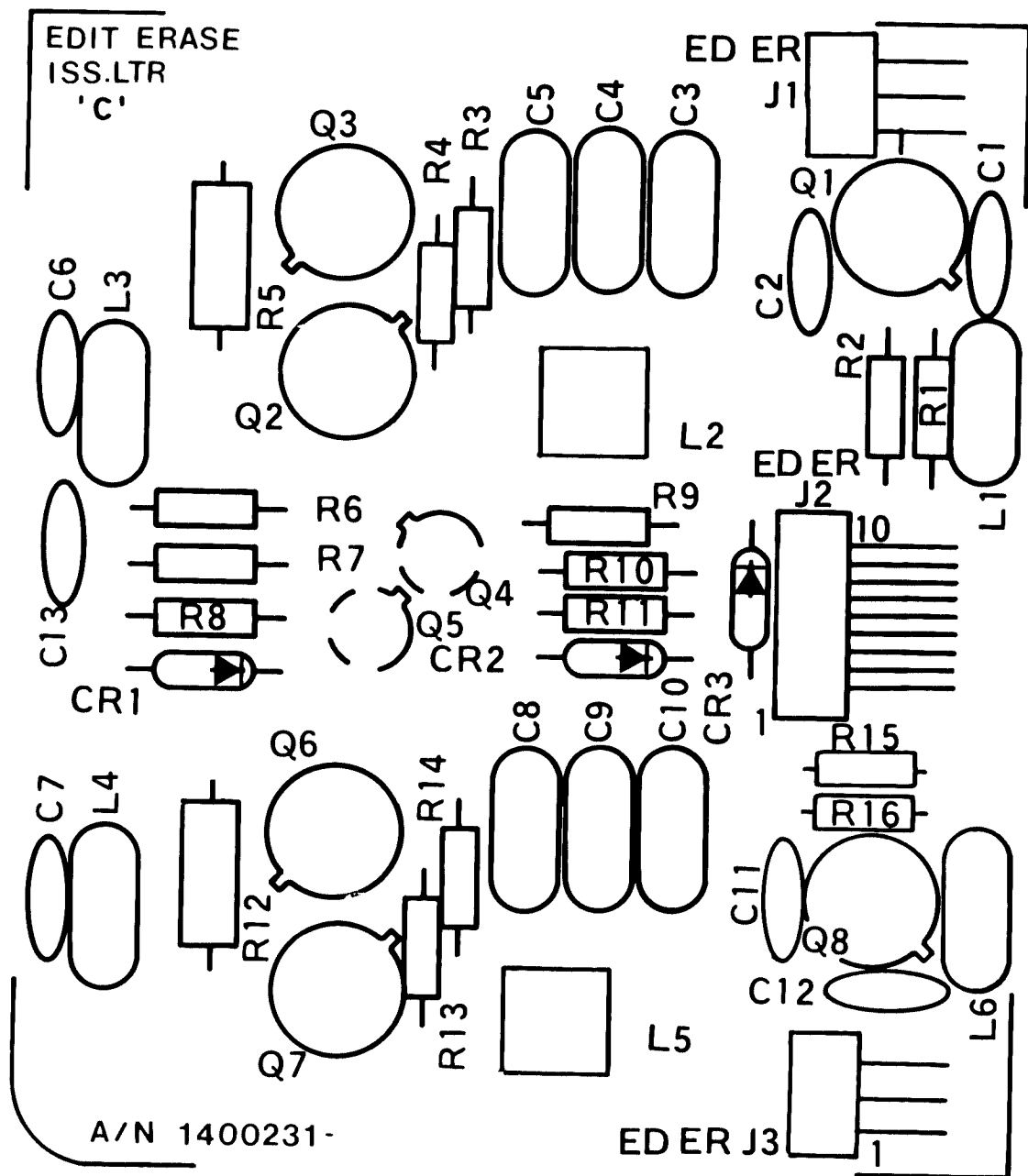


- NOTES, UNLESS OTHERWISE SPECIFIED,
1. ALL RESISTORS 1%, MF.
 2. DIODES ARE AMPER P/N 013-689
 3. IC'S ARE P/N 550-601, FOR FIELD SERVICE SUBSTITUTE LF356.
 4. THIS SCHEMATIC REFLECTS PWA 1400210-04.
5. C26 AC COUPLES PWA GND TO TRANSPORT VIA MOUNTING SCREW.

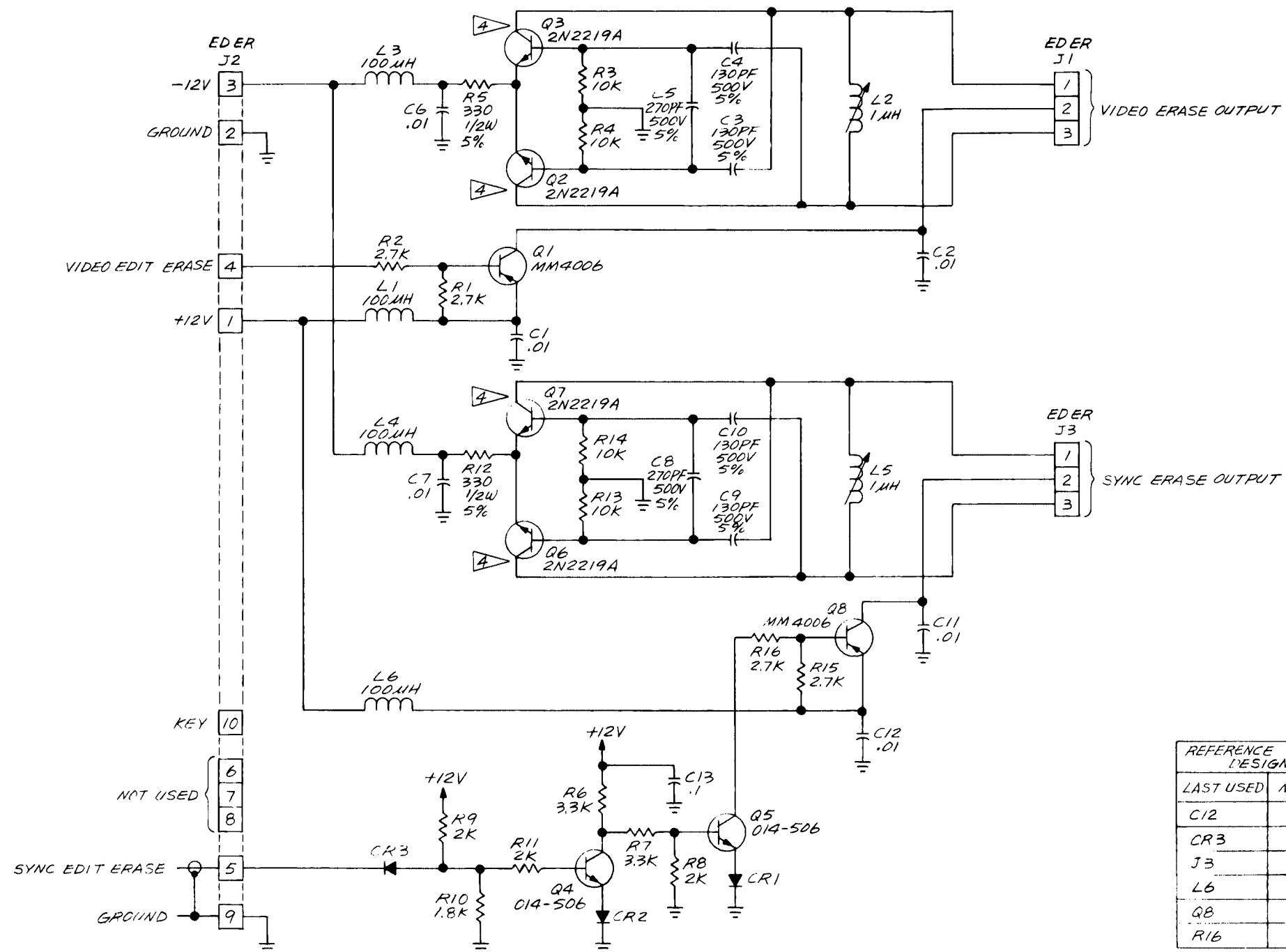
Schematic No. 1400211E.
Audio Preamplifier PWA

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				01	02								
1				01									
2	135-621	CONNECTOR, REC P, 13 PIN		2	2								
3	1400233	SCHEMATIC	(-)	A									
4													
5													
6													
7	050-057	CAPACITOR, DIEC, .01 μ F, 50V, 20% ^{2,2,6,7} _{11,12}		6	6								
8	050-963	CAPACITOR, MICN3, 0.1 μ F, 50V, C13		1	1								
9	034-319	CAPACITOR, MICA, 270 μ F, 500V, 5%, C5,8		2	2								
10	034-439	CAPACITOR, MICA, 130 μ F, 500V, 5%, C3,4,9,10		4	4								
11													
12													
13													
14	013-639	DIODE, SIGNAL, 1N3600 SELECT CRI,2,3		3	3								
15													
16													
17													
18	063-025	INDUCTOR, 100 μ H L1,3,4,6		4	4								
19	1374353-04	INDUCTOR, 1 μ H L2,5		2	2								
20	135-145	CAP REF L2,5		4	4								
21													
22													
23													
24	014-506	TRANSISTOR, NPN (2N3251) Q4,5		2	2								
25	014-322	TRANSISTOR, NPN, (2N2219A) Q2,3,6,7		4	4								
26	014-872	TRANSISTOR PNP, (MM4006) Q1,8		2	2								
27	280-130	PAD MOUNTING, Transistor, Ref Q1,5		2	2								
28	280-180	PAD MOUNTING, TRANSISTOR, REF Q1,2,3,6,7,8		6	6								
29													
30	7606026-01	H/AT SINK, REF Q2,3,6,7		4	4								
31													
32	135-621	CONNECTOR, REC P, 13 PIN REF T1,3		2	2								
33	135-104	CONNECTOR, REC P, 10 PIN REF J2		1	1								
34													
35	087-358	HEATSINK COMPOUND		1/2									
36													
37													

AMPDEX		AMPDEX CORPORATION REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS		LM- 1400231		SHEET 2		J				
ITEM NO	PART NUMBER		DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER										
					01	02									
38	066-720		RESISTOR, C.F. 3.3K, 1/4W, 5% R6,7		2	2									
39	066-830		RESISTOR " 10K " " R3,4,13,14		4	4									
40	066-675		RESISTOR, " 1.8K " " R10		1	1									
41	066-666		RESISTOR " 2.7K " " R1,2,15,16		4	4									
42															
43	041-489		RESISTOR, COMP, 335L, 1/2W, 5% R5,12		2	-									
44	041-329		RESISTOR, COMP, 3305L, 1/2W, 5% R5,12			2									
45															
46															
47	066-826		RESISTOR, C.F. 2K, 1/4W, 5% R8,9,11		3	3									
48															
49															
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52															
53															
54															
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80															
81															
82															



Assembly No. 1400231-02J. Edit Erase PWA



NOTES: UNLESS OTHERWISE SPECIFIED

1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
2. CAPACITANCE VALUES ARE IN MICROFARADS, 50V, ±20%.
3. ALL DIODES ARE 013-689.

4. HEATSINK REQUIRED.

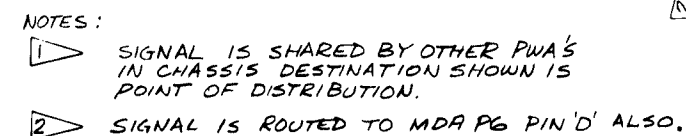
5. THIS SCHEMATIC REFLECTS PWA 1400231-02

REFERENCE DESIGNATIONS	
LAST USED	NOT USED
C12	
CR3	
J3	
L6	
Q8	
R16	

FIELD SERVICE COMPONENT SUBSTITUTION LIST	
AMPEX P/N	NEAREST COMM. EQUIV.
013-689	CD6016
014-506	2N2501
014-767	2N2219
014-872	MM4006

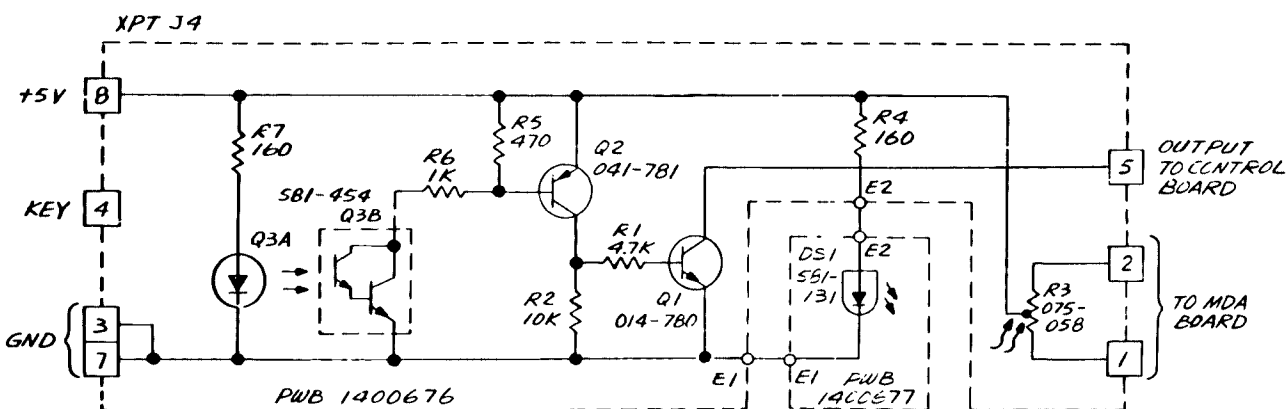
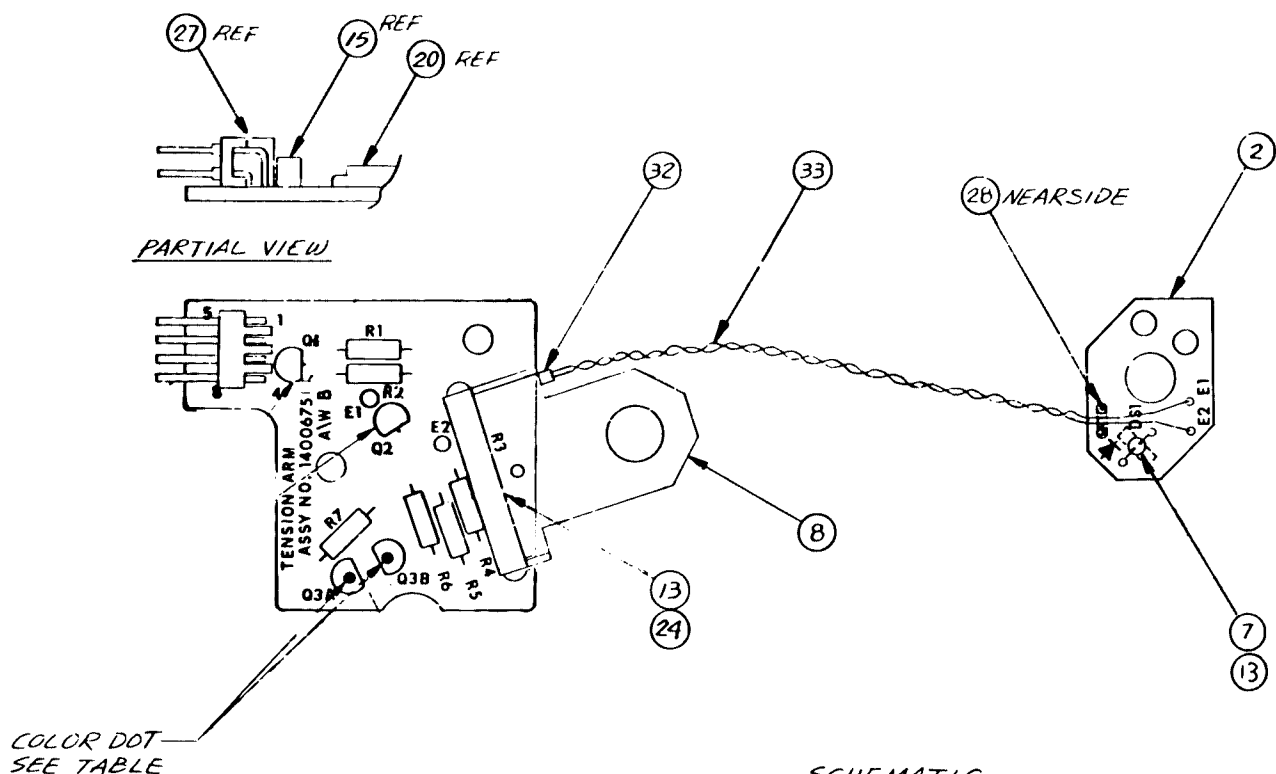
Schematic No. 1400233A.
Edit Erase PWA

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-03									
1	1400607	TRANSPORT WIRING DIAGRAM	B										
2													
3	139-845	CONNECTOR, PLUG, 4 POS., P2, 6	2										
4	167-670	CONNECTOR, PLUG, 6 POS., F3, P5	2										
5	166-902	CONNECTOR, PLUG, 26 POS., P1	1										
6													
7													
8	167-611	CONNECTOR, PLUG, 8 POS., RECT. P4	1										
9													
10													
11													
12	166-226	CONTACT, PIN, 24 AWG	A/R										
13													
14													
15	166-200	CONTACT, PIN, 20 AWG	A/R										
16													
17													
18													
19													
20													
21	167-129	CONTACT, SOCKET, 26-22 AWG	A/R										
22	167-444	CONTACT, SOCKET, 26-22 AWG	A/R										
23													
24	616-720	WIRE, CCAX, 2 COND	A/R										
25		WIRE, STRANDED, 24 AWG	A/R										
26													
27													
28	167-445	PLUG, KEYING, NYLON REF XPT, P4, PIN 4	1										
29	167-854	PLUG, KEYING, NYLON REF XPT P5 PIN 2; XPT P3, PIN 2	4										
30		TUBING	A/R										
31		SLEEVING	A/R										
32	302-379	STRAP, CABLE	A/R										



3-45/3-46

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				02									
1													
2													
3													
4													
5													
6													
7	1378675-01	LENS		1									
8	1379464-01	GUIDE, PHOTOPOT ALIGNMENT		1									
9													
10													
11													
12													
13	018-097	ADHESIVE (TESTORS B)	A/R	1/2									
14													
15	014-780	TRANSISTOR, MPS 6514 Q1		1									
16	014-781	TRANSISTOR, MPS 6518 Q2		1									
17													
18	066-830	RESISTOR, 10K OHM, 1/4W, 5% R2		1									
19	066-665	RESISTOR, 1K OHM, 1/4W, 5% R6		1									
20	066-668	RESISTOR, 4.7K OHM, 1/4W, 5% R1		1									
21	066-818	RESISTOR, 470 OHM, 1/4W, 5% R5		1									
22	066-984	RESISTOR, 160 OHM, 1/4W, 5% R4,7		2									
23													
24	075-058	PHOTO POTENTIOMETER R3		1									
25													
26													
27	135-103	CONNECTOR PART, RECEPT 8 POS 87230-4 J4		1									
28	302-395	MOUSE TAIL STRAP, CABLE		1									
29	460-489	RIVET, TUBULAR, OVAL HD, .061 DIA X .12 LG		1									
30	581-131	L.E.D. DS1		1									
31	581-454	SWITCH, OPTICAL (MATCHED PAIR) Q3		1									
32	600-126	SLEEVING, SHRINKABLE, CLEAR .041 I.D.	A/R	1/2									
33	616-812	WIRE, TWISTED PAIR, PHONO 32 AWG	A/R	1/2									
34													
35													
36													
37													

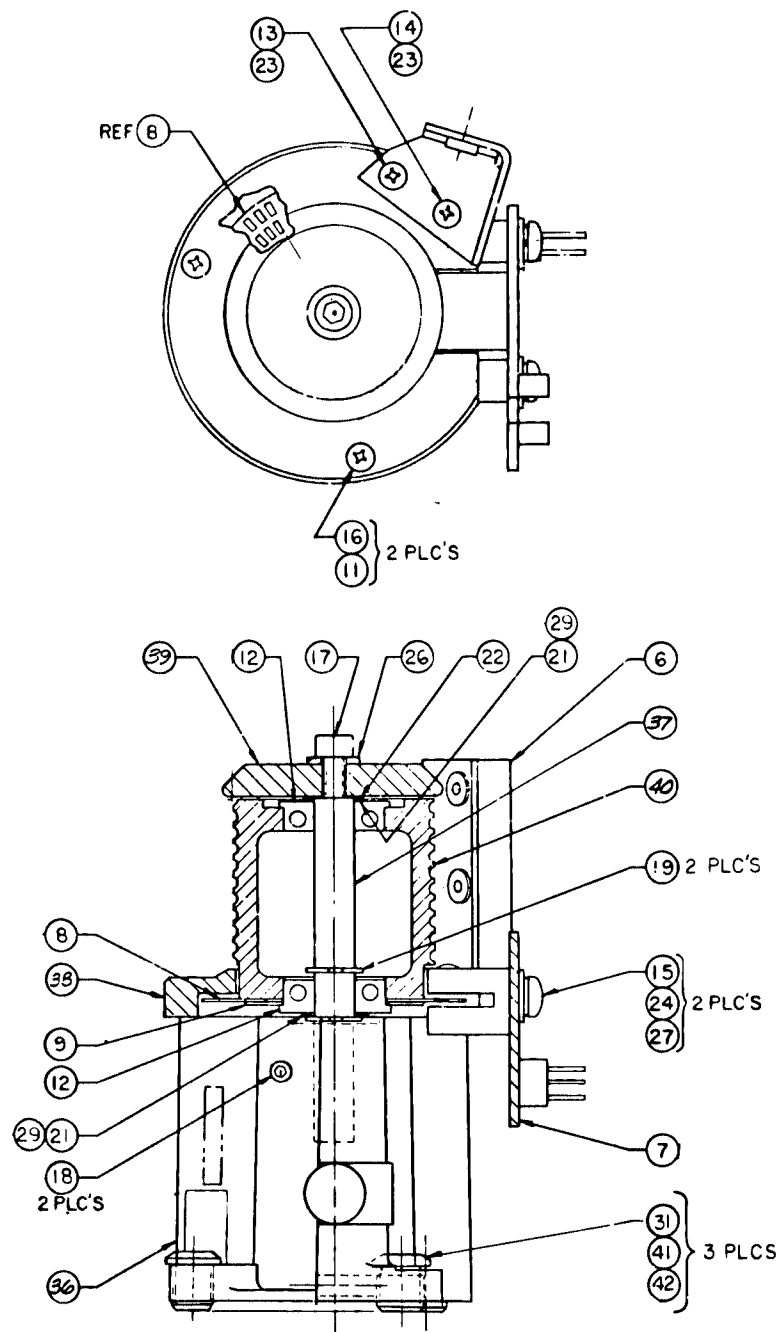


WIRE ROUTING LIST						
WIRE NO.	GANG/ COLOR	FROM REF DES	TEAM NO	TO REF DES	TEAM NO	REMARKS
1	32/BLK	1400675	E1	1400677	E1	TAIUSTED
2	32/RED	1400675	E2	1400677	E2	PAIR

PHOTOEMISSIVE/PHOTOCSENSITIVE MATCHED PAIR TABLE			
EMISSIVE HALF		SENSITIVE HALF	
REF DES	COLOR	REF DES	COLOR
Q3A	BLK	Q3B	YE L

Assembly No. 1400675-02H. Tension Arm and LED PWA

ITEM NO.	PART NUMBER	D	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
					-02	-03	-04	-05	-06					
1	1400747-03		STANCHION, IDLER		1	1	1	1	-					
2	1400741-AC		ROLLER, 60 HZ		1	1	1	1	-					
3	1378712-02		SHAFT, IDLER		1	1	1	1	-					
4	1378719-01		CAP, IDLER		1	1	1	1	-					
5	1400742-01		FLANGE, IDLER		1	1	1	1	-					
6	1400744-01		BRACKET, TIMER IDLER COVER		1	1	1	1	1					
7	1400220-04		PWA, TAPE TIMER TACH AND E.O.T. SENSOR		1	1	1	1	1					
8	1400745-01		DISC, COUNTER		1	1	1	1	1					
9	1400746-01		WASHER		1	1	1	1	1					
10	1400747-04		STANCHION, IDLER		-	1	-	-	-					
11	018-458		ADHESIVE, LOCTITE 222		A/R	A/R	A/R	A/R	A/R					
12	420-063		BEARING, FLANGED		2	2	2	2	2					
13	472-113		SCREW, XREC, PAN HD., 2-56 X .250 LG		1	1	1	1	1					
14	472-456		SCREW, XREC, PAN HD., 2-56 X .500 LG		1	1	1	1	1					
15	471-063		SCREW, XREC, PAN HD., 4-40 X .438 LG		2	2	2	2	2					
16	472-468		SCREW, XREC FLAT HD., 2-56 X .375 LG		2	2	2	2	2					
17	470-018		SCREW, HEX SOC, 6-32 X .375 LG		1	1	1	1	1					
18	477-555		SETSCREW, CONE POINT, 6-32 X .375 LG		2	-	-	2	2					
19	430-381		RING, RETAINING, E-TYPE, .25		1	2	2	2	2					
20	502-471		WASHER, SHIM, .025 THK		1	-	-	-	-					
21	501-058		WASHER, SHIM, .010 THK		1	2	2	2	2					
22	501-230		WASHER, WAVY, .265 I.D., .367 O.D., .006 THK		1	1	1	1	1					
23	502-001		WASHER, LOCK, NO. 2		2	2	2	2	2					
24	502-002		WASHER, LOCK, NO. 4		2	2	2	2	2					
25														
26	502-025		WASHER, LOCK, INTERNAL TOOTH, NO. 6		1	1	1	1	1					
27	501-169		WASHER, FLAT, NO. 4 (SMALL PATTERN)		2	2	2	2	2					
28	1378712-03		SHAFT, IDLER		-	1	1	-	-					
	NOTES:		1. ASSEMBLY NUMBER 1400743, TIMER IDLER ASSEMBLY - 50 HZ,											
			IS IDENTICAL EXCEPT FOR ITEM 2, ROLLER.											
29	280-801		SHIM, .003" THK, .254 I.D.		-	A/R	A/R	A/R	A/R					
30	477-498		SET SCREW, CUP POINT, 6-32 X .312 LG		-	4	4	4	-					
31	1400918-02		SCREW, ADJUSTING		-	2	2	3	3					
32					-	REF	REF	REF	REF					
33					-	REF	REF	REF	REF					
34	1400741-AE		ROLLER, 60 Hz		1	1	1	1	-					
35	1400747-05		STANCHION, IDLER		1	1	1	1	-					



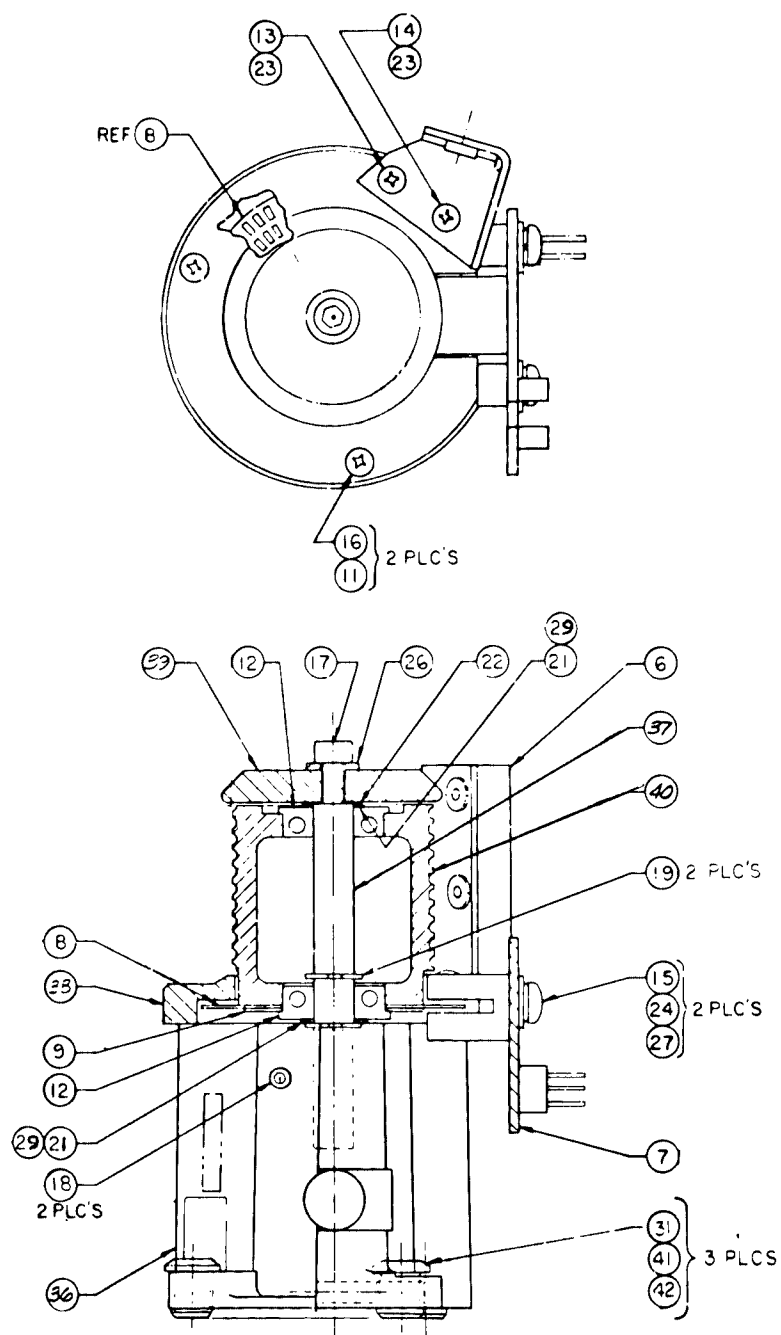
Assembly No. 1400740-06T. Timer Idler Assembly, 60 Hz

TAPE TIMER TACH/EOT SENSOR PWA,
60 HZ, 50 HZ, w/SCHEMATIC
NEXT HIGHER ASSEMBLY 1400740

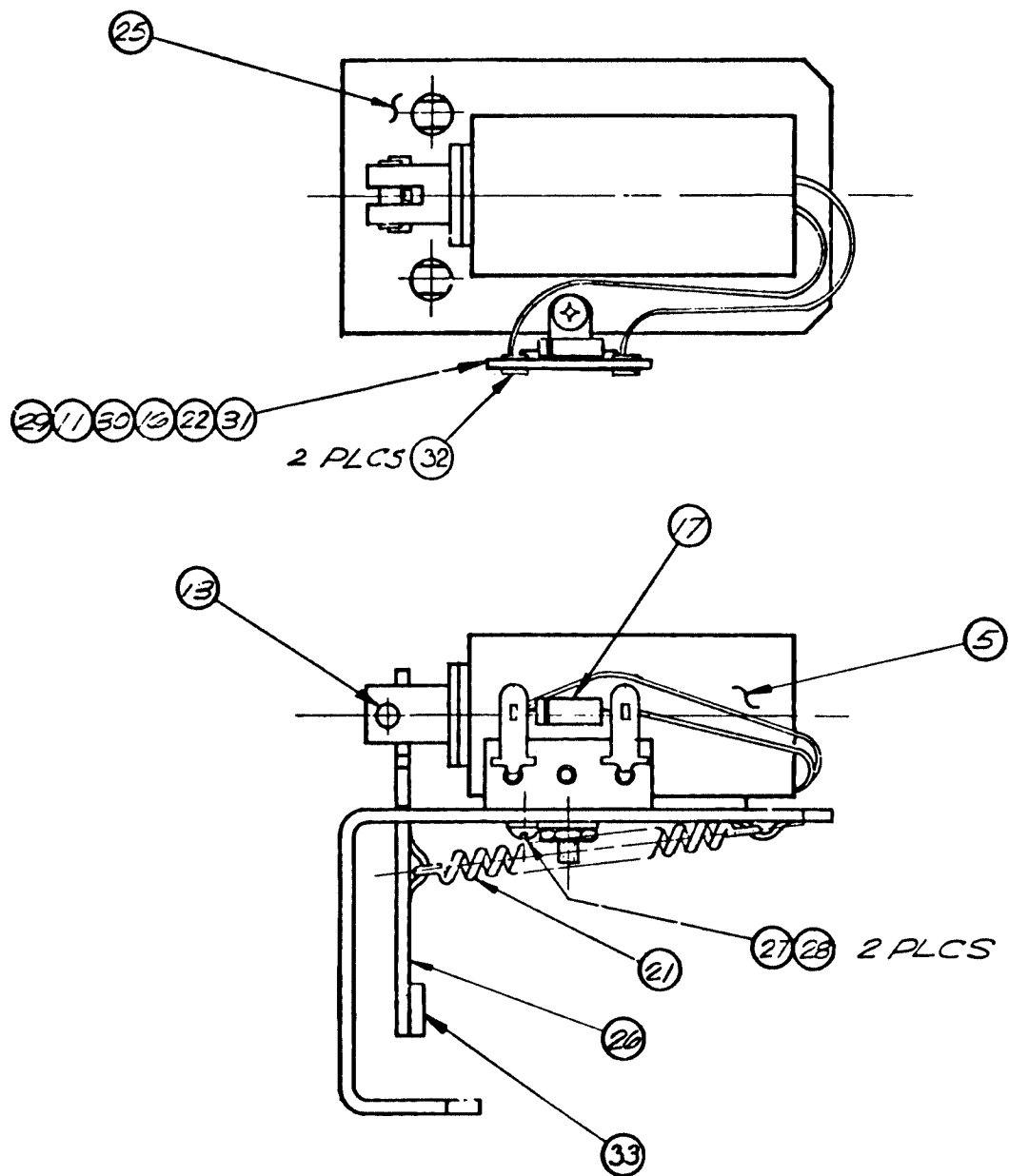
LM-1400220

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ITEM NO.	PART NUMBER	D	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
					-02	-03	-04	-05	-06					
1	1400747-03		STANCHION, IDLER		1									
2	1400741-AD		ROLLER, 50 HZ		1									
3	1378712-02		SHAFT, IDLER		1									
4	1378719-01		CAP, IDLER		1									
5	1400742-01		FLANGE, IDLER		1									
6	1400744-01		BRACKET, TIMER IDLER COVER		1									
7	1400220-04		PWA, TAPE TIMER TACH AND E.O.T. SENSOR		1									
8	1400745-01		DISC, COUNTER		1									
9	1400746-01		WASHER		1									
10	1400747-04		STANCHION, IDLER											
11	018-458		ADHESIVE, LOCTITE 222	A/R	A/R		A/R	A/R	A/R					
12	420-063		BEARING, FLANGED	2	2		2	2	2					
13	472-113		SCREW, XREC PAN HD., 2-56 X .250 LG	1	1		1	1	1					
14	472-456		SCREW, XREC PAN HD., 2-56 X .500 LG	1	1		1	1	1					
15	471-063		SCREW, XREC PAN HD., 4-40 X .438 LG	2	2		2	2	2					
16	472-468		SCREW, XREC FLAT HD., 2-56 X .375 LG	2	2		2	2	2					
17	470-018		SCREW, HEX SOC, 6-32 X .375 LG	1	1		1	1	1					
18	477-555		SETSCREW, CONE POINT, 6-32 X .375 LG	2				2	2					
19	430-381		RING, RETAINING, E-TYPE, .25	1	2		2	2	2					
20	502-471		WASHER, SHIM, .025 THK	1										
21	501-058		WASHER, SHIM, .010 THK	1	2		2	2	2					
22	501-230		WASHER, WAVY, .265 I.D., .367 O.D., .006 THK	1	1			1	1					
23	502-001		WASHER, LOCK, NO. 2	2	2		2	2	2					
24	502-002		WASHER, LOCK, NO. 4	2	2		2	2	2					
25	501-169		WASHER, FLAT, NO. 4 (SMALL PATTERN)	2	2		2	2	2					
26	502-025		WASHER, LOCK, INTERNAL TOOTH, NO. 6	1	1		1	1	1					
27	1378712-03		SHAFT, IDLER				1							
28	280-801		SHIM, .003" THK, .254 I.D.		A/R		A/R	A/R	A/R					
			NOTES:											
			1. ASSEMBLY NUMBER 1400740, TIMER IDLER ASSEMBLY - 60 HZ,											
			IS IDENTICAL EXCEPT FOR ITEM 40, ROLLER.											
29	477-498		SETSCREW, CUP POINT, 6-32 X .312 LG				4							
30	1400918-02		SCREW, ADJUSTING				2		3					
31					REF		REF		REF					
32					REF		REF		REF					
33	1400741-AF		ROLLER, 50 HZ				1							
34	1400747-05		STANCHION, IDLER				1							

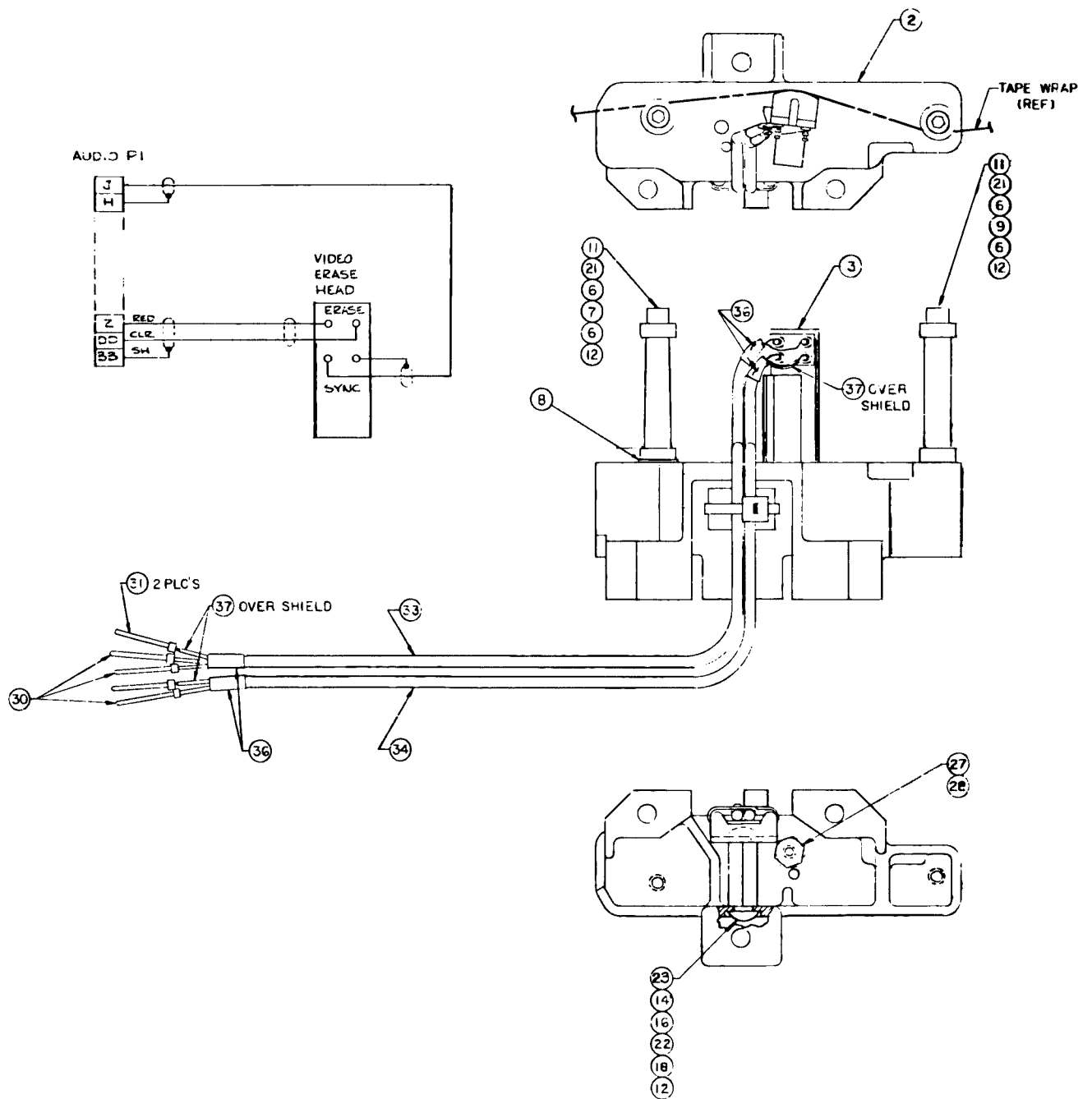


Assembly No. 1400743-06P. Timer Idler Assembly, 50 Hz

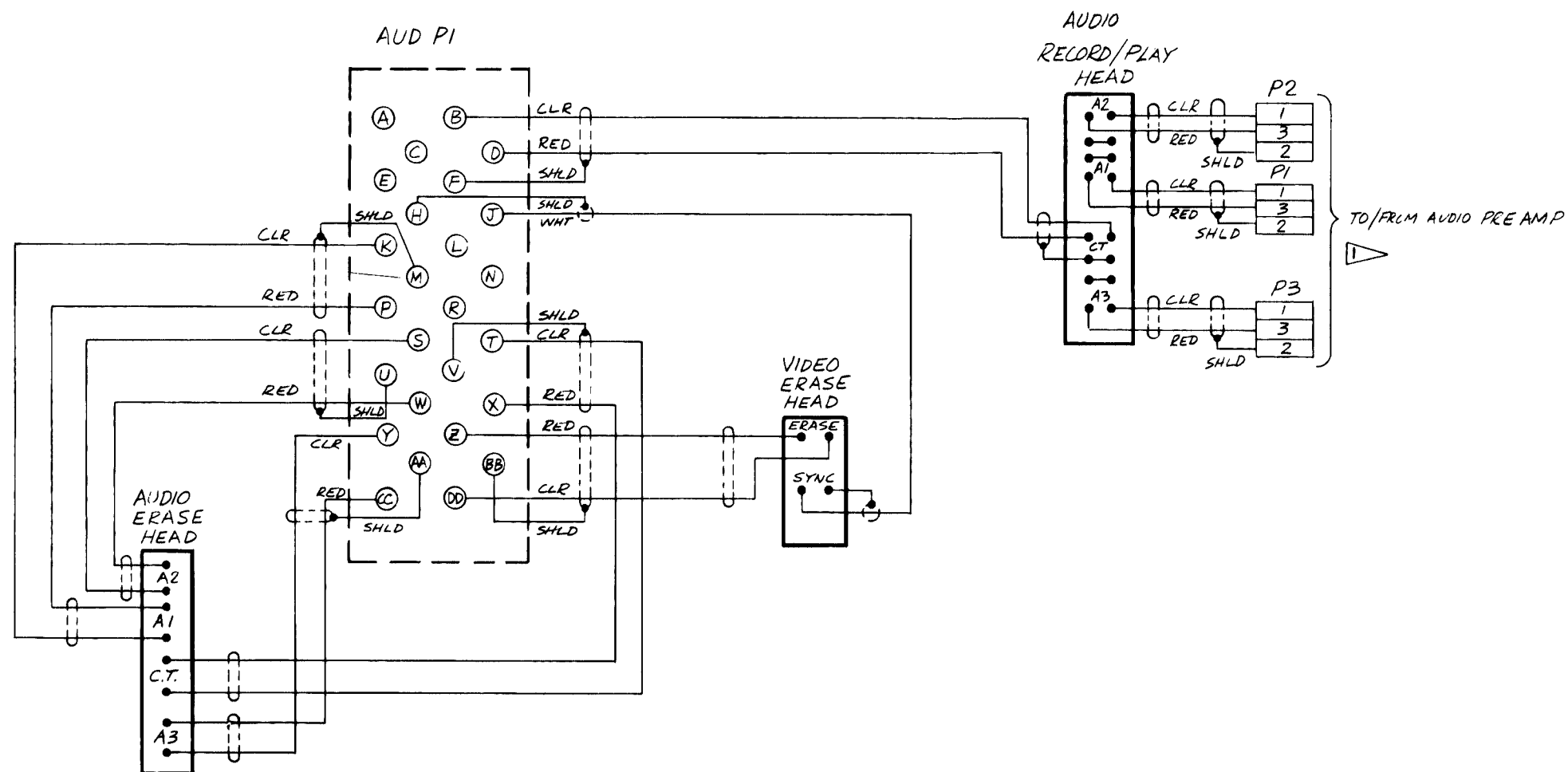


Assembly No. 1400647-03D. Flutter Idler Brake Assembly

ITEM NO.	PART NUMBER	D	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
					-01	-02	-03	-04	-05					
1	1400766-01		BASE		1	1	1	-	-					
2	1400766-02		BASE				-	1	1					
3	1400730-02		HEAD STACK ASSEMBLY, VIDEO ERASE		1	1	1	1	1					
4	1400771		WIRING DIAGRAM, THREE CHANNEL HEAD ASSEMBLY	REF.	REF.	REF.	REF.	REF.	REF.					
5	1400772		WIRING DIAGRAM, FOUR CHANNEL HEAD ASSEMBLY	REF.	REF.	REF.	REF.	REF.	REF.					
6	1378674-02		GUIDE, TAPE EDGE ALTERNATE: 1407749-01		4	4	4	4	4					
7	1400773-01		POST, TAPERED		-	1	1	1	1					
8	501-047		WASHER, SHIM, .002 THK .149 I.D. X .375 O.D.		-	1	1	1	1					
9	1378950-01		POST, GUIDE		2	1	1	1	1					
10														
11	615-018		WIRE, SOLID, COPPER, TINNED, #26 AWG					A/R	A/R	A/R				
12	018-458		ADHESIVE, LOCTITE		A/R	A/R	A/R	A/R	A/R					
13														
14	283-183		SPACER, THREADED, 8-32 X .562 LG		1	1	1	1	1					
15														
16	302-355		STRAP ACCESSORIES; MOUNTING PLATE		1	1	1	1	1					
17														
18	302-379		STRAP		1	1	1	1	1					
19														
20	471-343		SCREW, FLAT HEAD, XREC, 8-32 X .250 LG		1	1	1	-	-					
21	470-497		SCREW, HEX, SOC, HEAD, 6-32 X 1.500 LG		2	2	2	2	2					
22	472-406		SCREW, PAN HEAD, XREC, 8-32 X .188 LG		1	1	1	2	1					
23	471-891		SCREW, BUTTON HEAD, HEX, SOC, 8-32 X .375 LG						1					
24	477-162		SET SCREW, HEX, SOC, CUP PT., 4-40 X .500 LG.		1	1	1	1	1					
25														
26	492-008		NUT, HEX, 4-40, .25AF		1	-	-	-	-					
27	470-010		SCREW, HEX SOCKET 4-40 X .375 LG.					1	1					
28	502-024		WASHER, INT. TOOTH, NO. 4		1	1	1	1	1					
29														
30	166-226		CONTACT, PIN 24-26 AWG		A/R	A/R	A/R	A/R	A/R					
31	166-227		CONTACT, PIN 16-18 AWG		A/R	A/R	A/R	A/R	A/R					
32	296-004		HARNESS, LACE		A/R	A/R	A/R	A/R	A/R					
33	616-720		CABLE, TWIN AXIAL, 125 OHMS, 26 AWG		A/R	A/R	A/R	A/R	A/R					
34			CABLE, SHIELDED, 1 COND., 24 AWG		A/R	A/R	A/R	A/R	A/R					
35														
36	600-080		SLEEVING, SHRINKABLE, .187 DIAMETER, BLACK		A/R	A/R	A/R	A/R	A/R					
37	600-130		SLEEVING, SHRINKABLE, .093 DIAMETER, CLEAR		A/R	A/R	A/R	A/R	A/R					

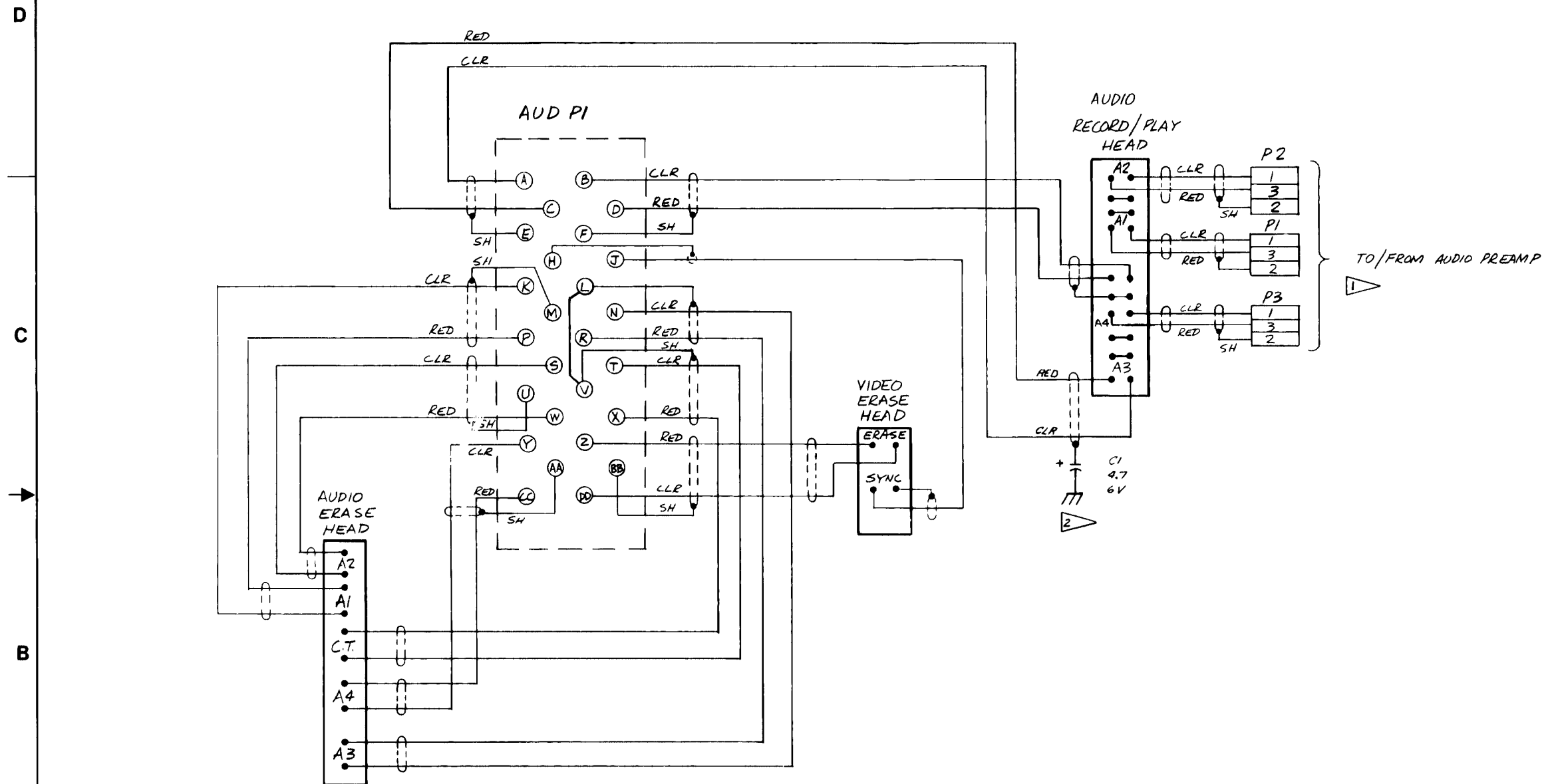


Assembly No. 1400770-05S. Video Erase Longitudinal Head Assembly



NOTES:

1. P1, P2 AND P3 MUST MATE WITH J1, J2 AND J3 ON 1400209-XX SUCH THAT PIN NUMBERS CORRESPOND

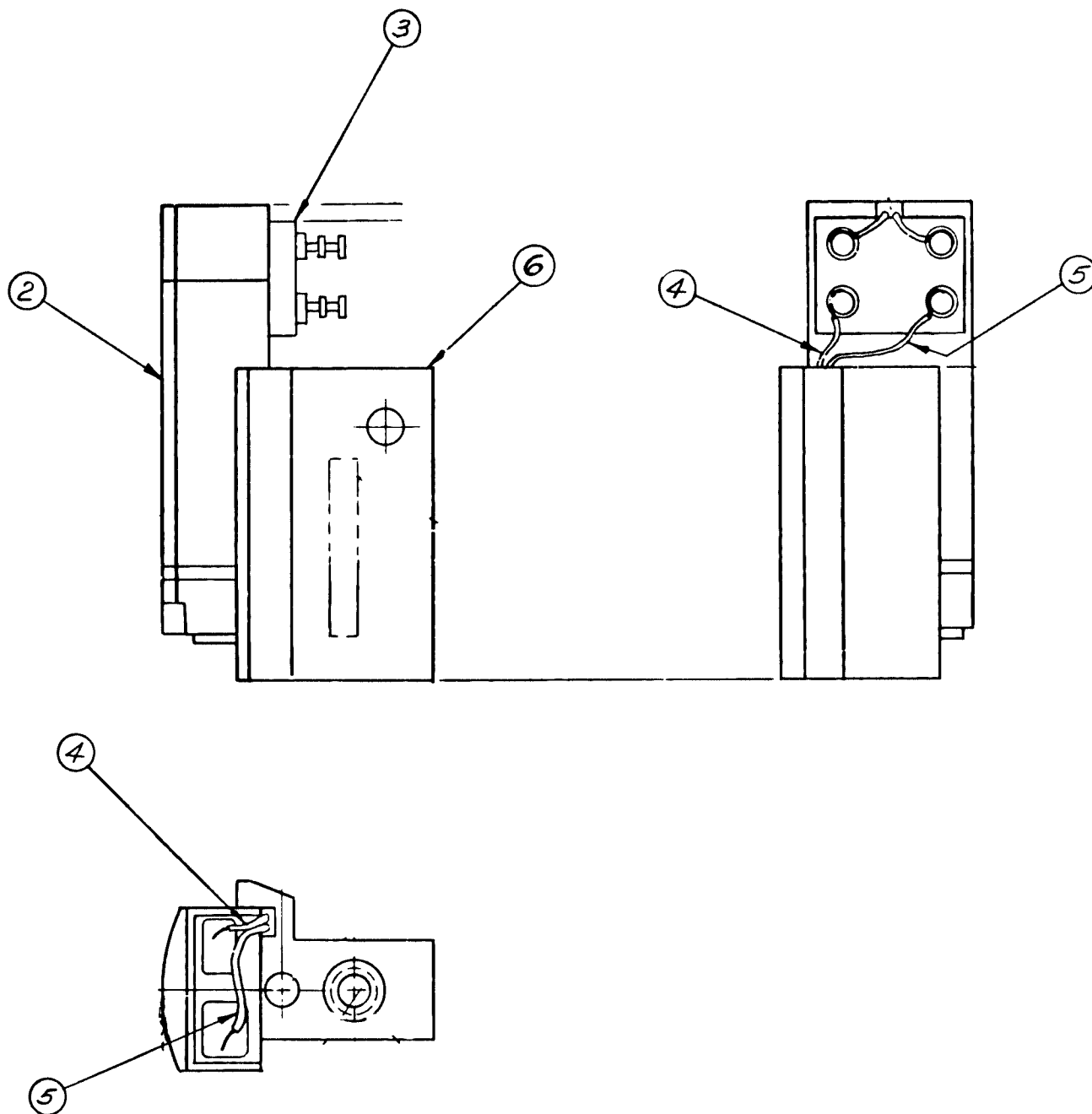


NOTES:

1. P1, P2 AND P3 MUST MATE WITH J1, J2 AND J3 ON 1400209-XX SUCH THAT PIN NUMBERS CORRESPOND

2. CHASSIS GROUND LOCATED BETWEEN AUDIO R/PB AND ERASE HEAD STACK ASSY.

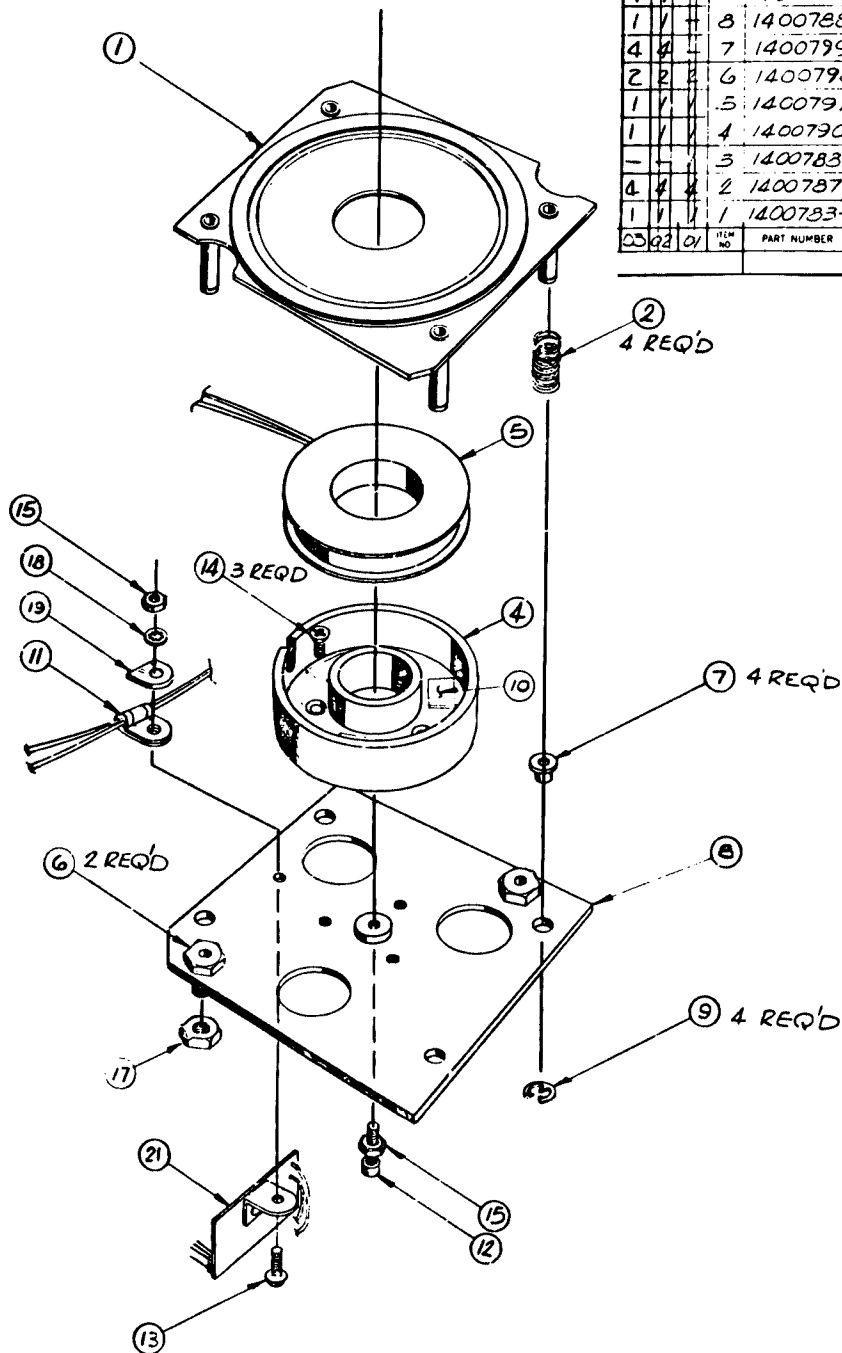
Wiring Diagram No. 1400772F.
4 Channel Head Assembly



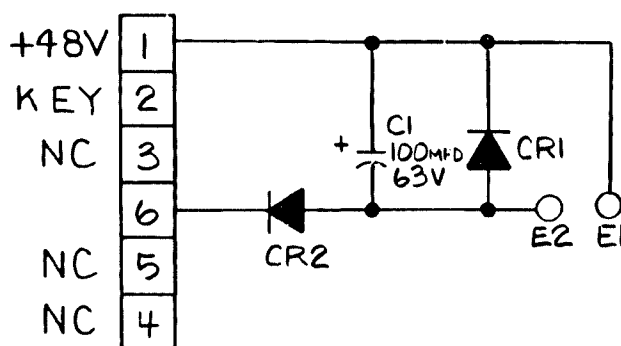
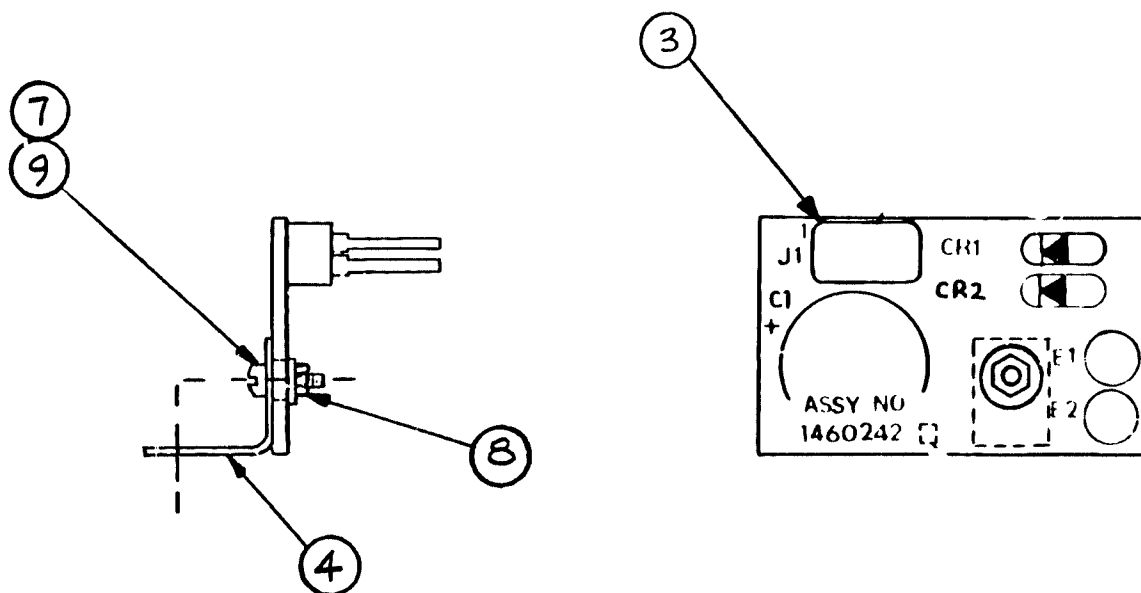
1	+	6	1400738-02	BASE
1/4	1/2	5	614-971	WIRE, STRANDED, #36 AWG, WHT
1/4	1/2	4	614-970	WIRE, STRANDED, #36 AWG, BLK
1	1	3	1400780-01	TERMINAL BOARD
1	1	2	1400775-01	HEAD SUB ASSY, VIDEO/SYNC ERASE
-	1	1	1400738-01	BASE
-02	QY	ITEM NO	PART NUMBER	DESCRIPTION

Assembly No. 1400730-02E. Video Erase Head Stack Assembly

1	-	-	21	1400797-01	PWA, CAPSTAN BRAKE DELAY
-	1	1	20	1400590-01	PWA, DIODE TERMINATION
1	1	1	19	506-027	WASHER "D" #6
1	1	1	18	502-025	WASHER, LOCK INT. TOOTH #6
2	2	2	17	498-633	NUT, HEX JAM 5/16-18 UNC-2B
-	-	-	16	430-004	RING, RETAINING EXTERNAL
2	2	2	15	492-009	NUT, PLAIN HEX 6-32
5	5	5	14	473-309	SCREW, MACH FLAT HD 6-32X.31 LG
1	1	1	13	471-069	SCREW, MACH PAN HD 6-32X.38 LG
1	1	1	12	470-022	SCREW, CAP HEX SOC 6-32X.75 LG
1	1	1	11	302-120	CLAMP
1	1	1	10	225-212	TAPE, ADHESIVE
4	4	4	9	430-381	RING RETAINING EXTERNAL "E"
1	1	1	8	1400788-02	SUPPORT PLATE ASSY
4	4	4	7	1400799-01	BUSHING
2	2	2	6	1400793-01	BOLT
1	1	1	5	1400791-01	COIL ASSY
1	1	1	4	1400790-01	HOUSING
-	-	-	3	1400783-01	SUPPORT PLATE ASSY
4	4	4	2	1400787-01	SPRING
1	1	1	1	1400783-01	PLATE ASSY
00	02	01	ITEM NO	PART NUMBER	DESCRIPTION
PARTS LIST					



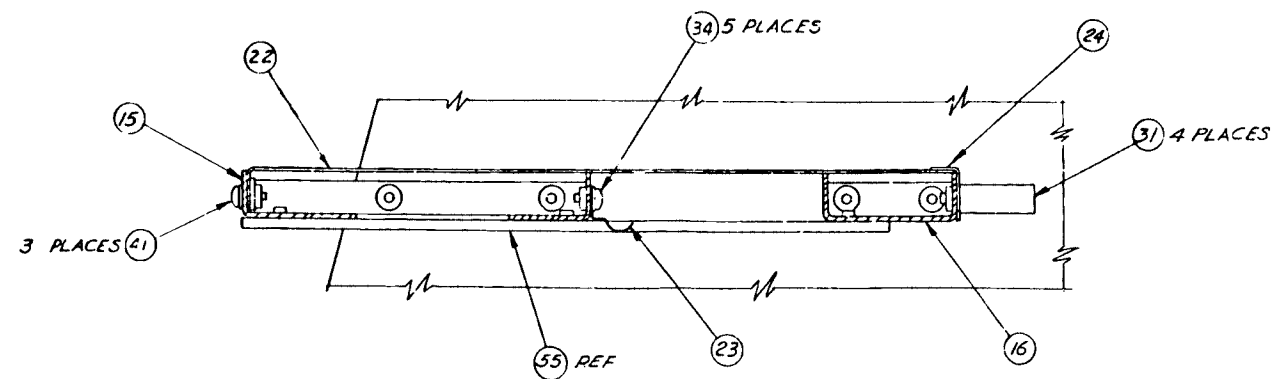
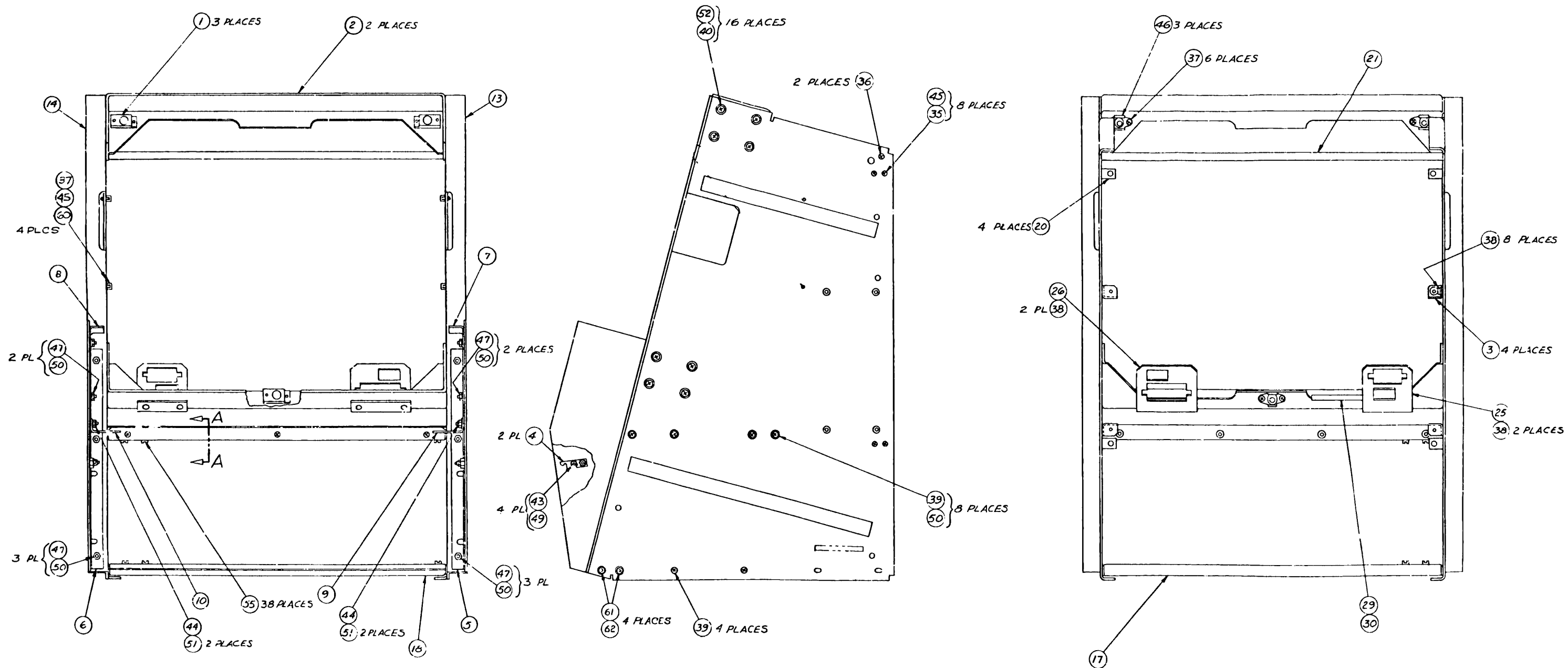
Assembly No. 1400797-03G. Capstan Flywheel Brake Assembly



1	9	501-169	WASHER, PLAIN, #4
1	8	496-004	NUT, #4-40, LOCKING, ASSY WASHER
1	7	471-061	SCREW, MACH, PAN HD, #4-40 x .312 LG
-	6	460-003	RIVET, OVAL HD., TUBULAR, .125 DIA X .156 LG.
1	5	063-409	CAPACITOR, TANTALUM, 100MFD, 63V, REF: C1
1	4	290-186	BRACKET
1	3	135-110	HEADER ASSY, 6 POS.
2	2	013-678	DIODE, 1N4385 REF: CR1, CR2
1	1		PRINTED WIRING BOARD
-01	ITEM NO	PART NUMBER	DESCRIPTION

Assembly No. 1460242-01A. Capstan Brake Delay PWA

ITEM NO.	PART NUMBER	E	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER										
					01										
1	1378595-01		BLOCK, TRANSPORT MOUNTING		3										
2	1378932-03		BRACKET, TRANSPORT MOUNTING		2										
3	1378933-01		BRACKET, POWER SUPPLY MOUNTING		4										
4	1378936-02		LATCH PART, KEEPER		2										
5	1378939-AA		TRIM, END, CONTROL PANEL; RIGHT		1										
6	1378939-AB		TRIM, END, CONTROL PANEL; LEFT		1										
7	1378940-AE		BRACKET, CONTROL PANEL MOUNTING, RIGHT		1										
8	1378940-AF		BRACKET, CONTROL PANEL MOUNTING, LEFT		1										
9	1379044-AC		BRACKET, HINGE, RIGHT		1										
10	1379044-AD		BRACKET, HINGE, LEFT		1										
11															
12															
13	1400551-AA		PANEL, SIDE, CHASSIS; RIGHT		1										
14	1400551-AB		PANEL, SIDE, CHASSIS; LEFT		1										
15	1400552-02		RAIL, CARD GUIDE, TOP FRONT		1										
16	1400553-01		RAIL, CARD GUIDE, TOP REAR		1										
17	1400554-01		RAIL, CARD GUIDE, BOTTOM REAR		1										
18	1400555-01		RAIL, CARD GUIDE, BOTTOM FRONT		1										
19															
20	1400557-01		BRACKET, MOUNTING, CONNECTOR PANEL		4										
21	1400558-01		SPACER ROD		1										
22	1400559-02		SCREEN, CARD GUIDE		1										
23	1400560-AA		CONTACT STRIP (TOP FRONT)		1										
24	1400561-01		HOLDER, SCREEN		1										
25	1400565-02		BRACKET, AUDIO		1										
26	1400566-02		BRACKET, TRANSPORT & CONTROL		1										
27															
28															
29	018-019		ADHESIVE, BASE, BONDING, 1 PART, LIQUID, (EASTMAN 910)	A/R											
30	260-062		GROMMET, NYLON, CATERPILLAR, FOR .128/.085 MATERIAL	A/R											
31	283-180		SPACER, THREADED, STUD, 6-32 INT & EXT, .375 OD X .1.00 LG	4											
32	302-546		CLAMP, CABLE, .500 DIA, FLAT BASE FOR ADHESIVE TAPE	-											
33	225-410		TAPE, ADH, DBL SLIDED, .300W X .031THK X 72YD ROLL	-											
34	473-330		SCREW, MACH, PAN HD, XREC DR, 6-32 X .250 LG, I.T. WASH	5											
35	471-328		SCREW, MACH, FLAT 82° HD, X-REC DR, 4-40 X .375 LG	8											
36	471-336		SCREW, MACH, FLAT 82° HD, X-REC DR, 6-32 X .375 LG	2											
37	473-326		SCREW, MACH, PAN HD, X-REC DR, 4-40 X .374 LG, I.T. WSHR	10											



SECTION A-A
SCALE: 1/1

Assembly No. 1400550-01M.
Transport Chassis

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER										
				-01	-02	-03								
1	1401204-01	UPPER SCANNER ASSEMBLY		1	-	-								
2	1401229-01	WASHER, STOP		1	1	1								
3	1401258-04	LOWER SCANNER ASSEMBLY		1	-	-								
4	1401098-01	TAPE GUIDE ASSEMBLY		1	1	1								
5	1401347-01	SHIPPING/CARRYING CASE ASSEMBLY; SCANNER		1	1	1								
6	1401177	WIRING DIAGRAM		E	F	G								
7	1401303-01	COVER ASSEMBLY		1	-	-								
8	6000035-01	LABEL, IDENTIFICATION		1	1	1								
9	1401210-01	BRACE, SYNC HEAD		1	-	-								
10	1401211-01	HEAD CLAMP ASSY.		1	-	-								
11														
12	167-404	CONNECTOR, PART, HOUSING (2 POS.)		4	4	4								
13	167-692	CONNECTOR, PART, CONTACT		8	8	8								
14	1401096-01	UPPER SCANNER ASSEMBLY		-	1	1								
15	1401233-02	LOWER SCANNER ASSEMBLY		-	1	-								
16	1401219-02	COVER ASSEMBLY		-	1	1								
17	470-020	SCREW, CAP. HEX SOC. 6-32 x .50 LG		3	3	3								
18	470-061	SCREW, CAP. HEX SOC 4-40 x .38 LG SST		3	3	3								
19	1401233-03	LOWER SCANNER ASSY				1								
20	476-356	SCREW, SHOULDER 8-32, .188 LG SH., .188 LG THD.		1	1	1								
21	473-975	SCREW, MACH., FILLISTER HD. SLOTTED, 4-40 x 5/16 LG SST		5	-	-								
22	473-975	SCREW, MACH., FILLISTER HD. SLOTTED, 4-40 x 1/2 LG SST		3	-	-								
23	473-977	SCREW, MACH., X REC PAN HD., 4-40 x 5/16 - BRASS, PLAIN		3	-	-								
24	501-218	WASHER, PLAIN #6, SMALL PATTERN		3	3	3								
25	502-003	WASHER, LOCK, SPRING #6		3	3	3								
26	501-110	WASHER, PLAIN, #4 SMALL PATTERN			3	3								
27														
28	600-092	SLEEVING, SHRINKABLE .250 ID, BLACK		A/R	A/R	A/R								
29														
30														
31														
32														
33														
34														
35														
36														
37														

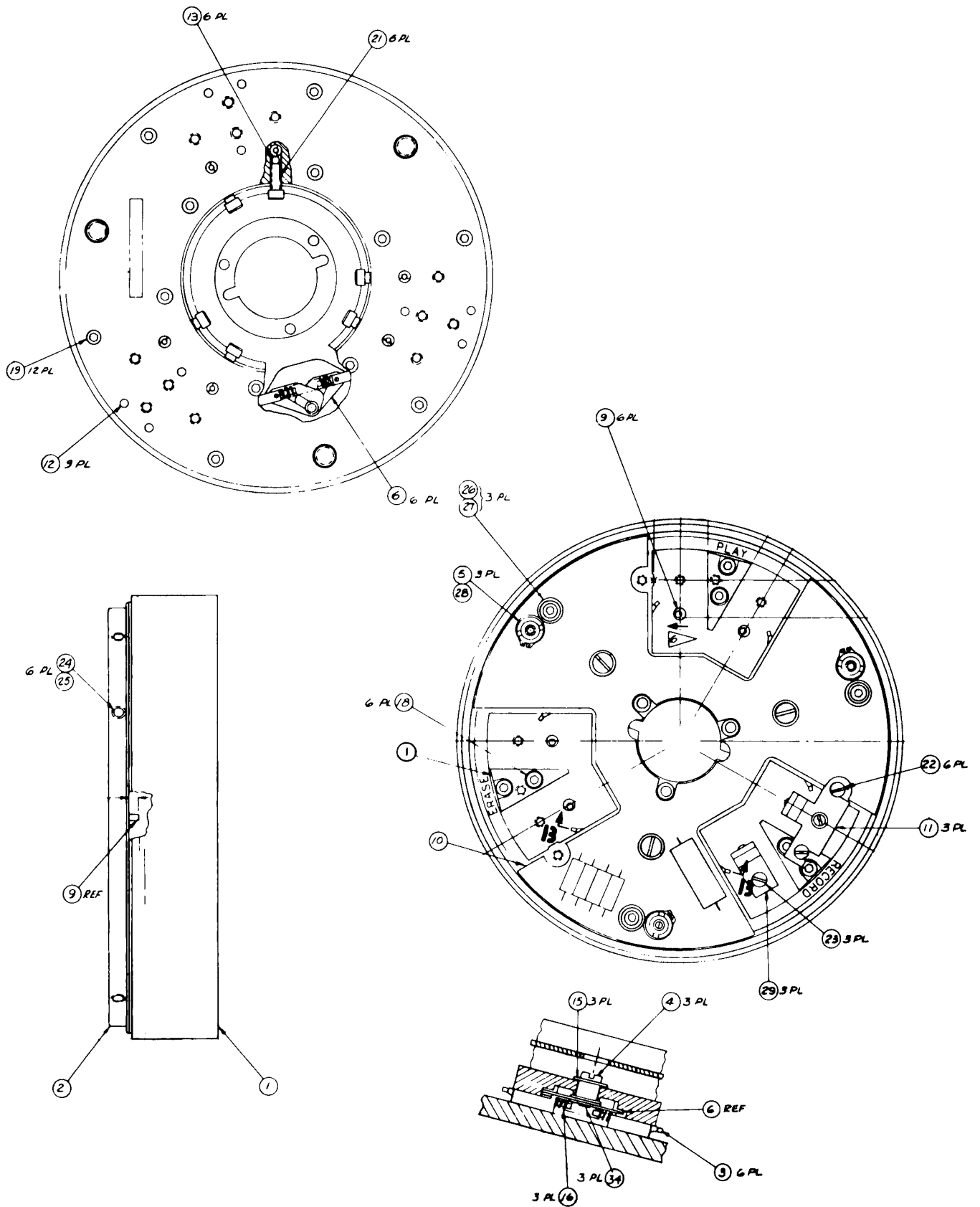
1. SIMILAR TO 1401100,
ENSURE THAT COMMON
CHANGES ARE EFFECTED.

1401096-01

UPPER SCANNER ASSEMBLY
NEXT HIGHER ASSEMBLY 1401099

REV. C

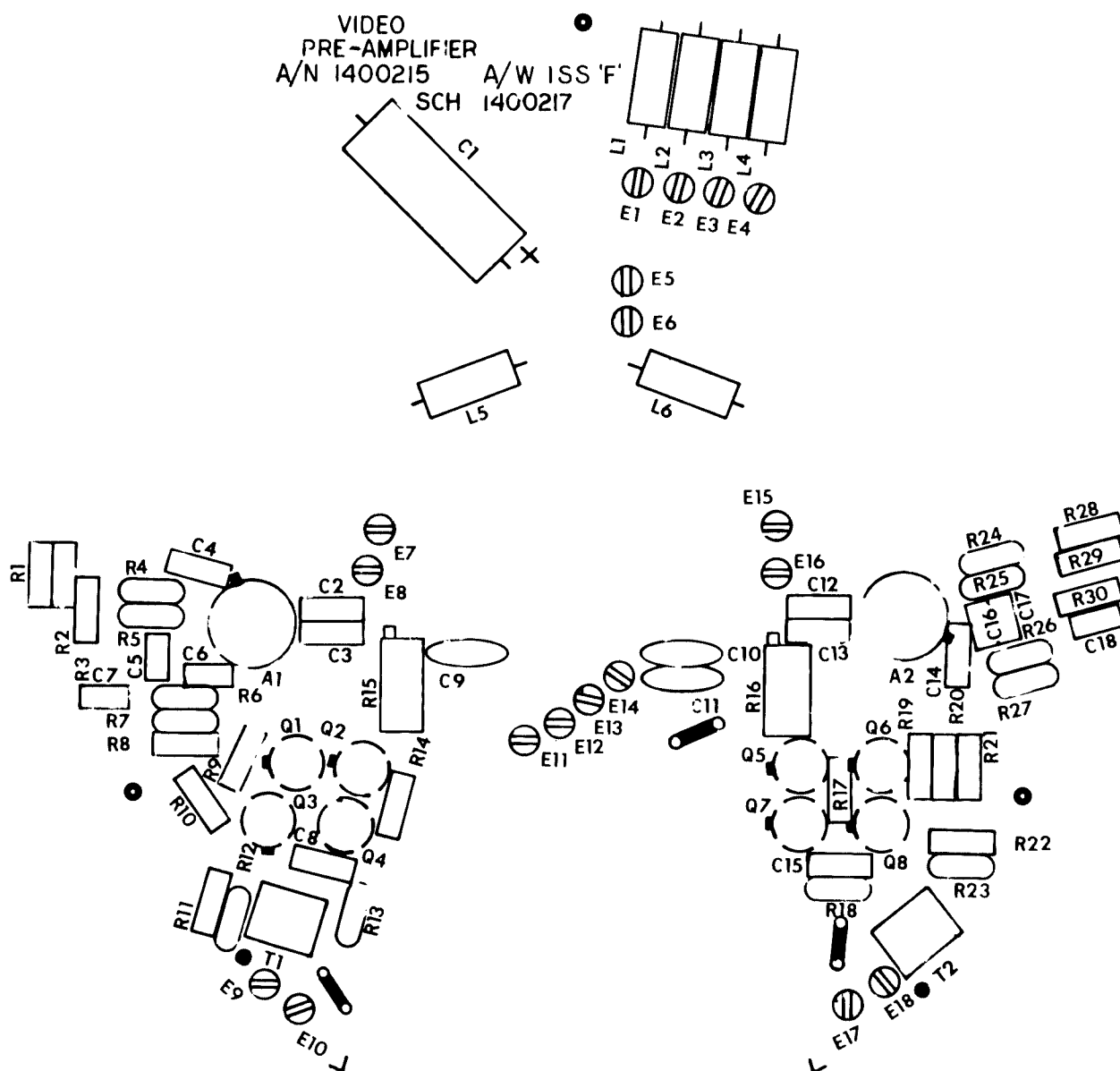
ITEM NO.	PART NUMBER	E	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
					-01									
1	1401095-01		UPPER DRUM, MACHINED		1									
2	1401197-01		PLATE, HD. MTG.		1									
3	1401194-01		PUSHER, ASSY		6									
4	1401182-01		ECCENTRIC		3									
5	1401215-01		COVER MTG ASSEMBLY		3									
6	1401184-01		LINK, PUSHER RELEASE		6									
7	1401185-01		PIE ASSY		3									
8														
9	1401188-02		ECCENTRIC, DRUM TIP		6									
10	1400215-05		PWA, PREAMP		1									
11	1401211-01		HEAD, CLAMP ASSY		3									
12	018-501		EPOXY, ABLESTICK, TYPE ARM C1	A/R										
13	421-398		BALL, .094 DIA., BRASS		6									
14	420-028		BALL, .094 DIA., 440 SST		-									
15	430-084		RING, RETAINING, E, 3/16		3									
16	352-496		SPRING, .120 DIA. x .81 LG. .020 WIRE		3									
17														
18	470-063		SCREW, CAP, SOC, 4-40 X .500 LG, SST		6									
19	470-064		SCREW, CAP, SOC, 4-40 X .625 LG, SST		12									
20														
21	470-687		SCREW, CAP, SOC, 4-48 X .312 LG, SST	A/R										
22	473-975		SCREW, FILLISTER HD., SLOTTED, #4-40 X 5/16 LG, SST		6									
23	473-976		SCREW, FILLISTER HD., SLOTTED #4-40x 1/2 LG, SST		3									
24	477-338		SCREW, SET, NYLOK, #8-32 X .312 LG, SST	A/R										
25	477-363		SCREW, SET NYLOK, #8-32 X .250 LG, SST	A/R										
26	477-789		SCREW, SET, NYLOK, 1/4-20 X .500 LG, SST	A/R										
27	477-790		SCREW, SET, NYLOK, 1/4-20 X .750 LG, SST	A/R										
28	018-458		LOCTITE, 222	A/R										
29	1401210-01		BRACE, SYNC HEAD		3									
30														
31														
32														
33														
34	502-485		WASHER, PLAIN, .156 O.D. X .010 THK		3									



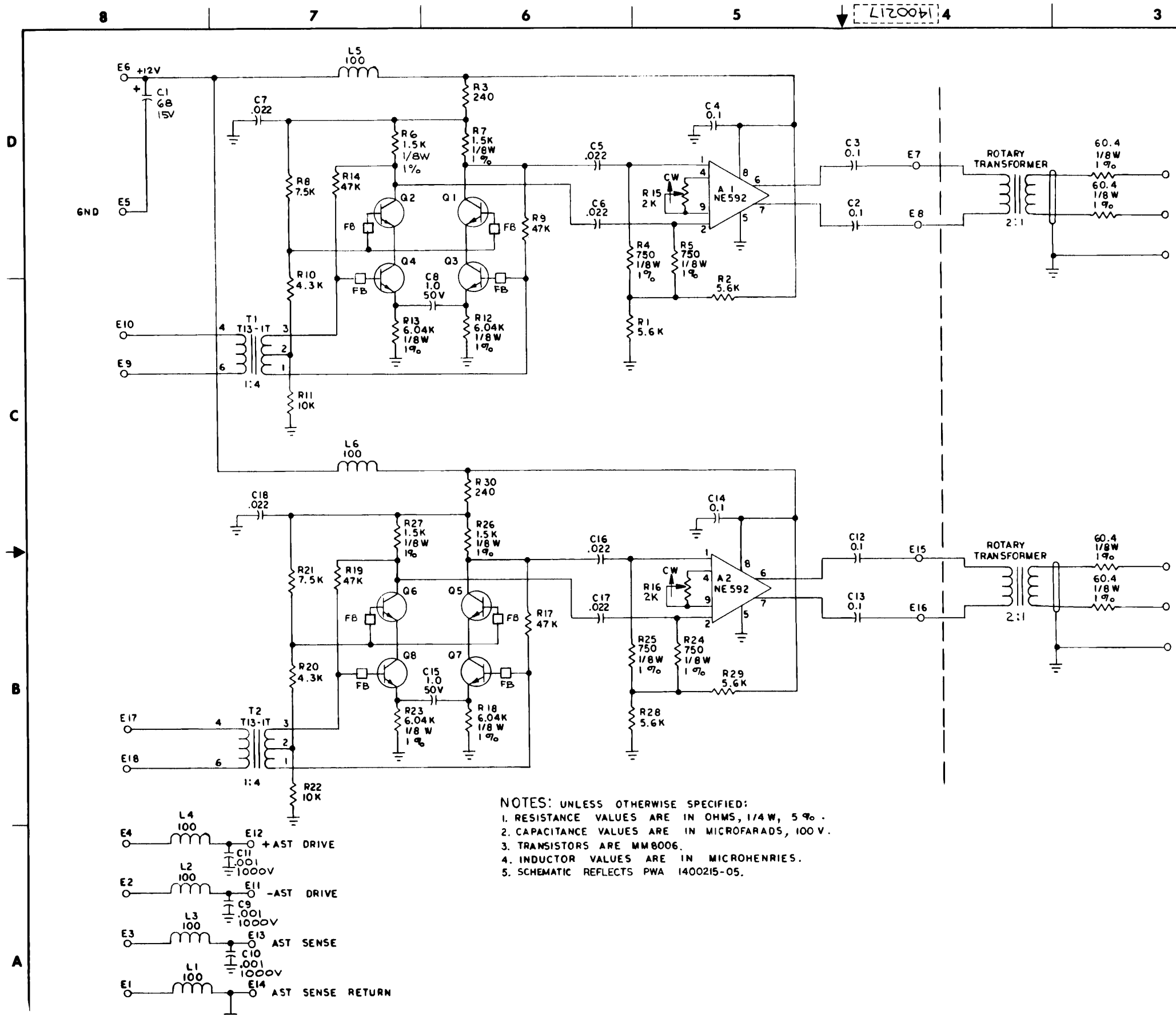
SECTION 13-13
Assembly No. 1401096-01C. Upper Scanner Assembly

ITEM NO.	PART NUMBER	D	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
					-01	-02	-03	-04	-05					
1					-0	-02	-04	-04						
2														
3	1400217	SCHEMATIC			-	A	B	B	D					
4														
5														
6														
7														
8	064-490	CAPACITOR, CER. DISC, .001uF, 1000V	C9,10,11		3	3	3	3	3					
9														
10														
11	064-062	CAPACITOR, CER, MONO, 0.1uF, 100V, 20%	C2-4,12-14		6	6	6	6	6					
12	064-300	CAPACITOR, CER, MONO, .022uF, 100V, 20%	C5-7,16-18		6	6	6	6	6					
13	064-314	CAPACITOR, CER, MONO, 1.0uF, 50V, 20%	C8,15		2	2	2	2	2					
14														
15	037-749	CAPACITOR, TANT, 68uF, 15V	C1		1	1	1	1	1					
16														
17														
18														
19	540-006	INDUCTOR, FIXED, 100uH	L1-6		6	6	6	6	6					
20														
21														
22	587-106	INTEGRATED CIRCUIT, NE592K	A1,2		2	2	2	2	2					
23														
24														
25														
26	066-830	RESISTOR, C.F., 10K, 1/4W, 5%	R11,22		2	2	2	2	2					
27	066-717	RESISTOR, C.F., 47K, 1/4W, 5%	R9,14,17,19		4	4	4	4	4					
28	066-859	RESISTOR, C.F., 240 OHM, 1/4W, 5%	R3,30		2	2	2	2	2					
29	066-718	RESISTOR, C.F., 5.6K, 1/4W, 5%	R1,2,28,29		4	4	4	4	4					
30	066-711	RESISTOR, C.F., 7.5K, 1/4W, 5%	R8,21		2	2	2	2	2					
31	066-828	RESISTOR, C.F., 4.3K, 1/4W, 5%	R10,20		2	2	2	2	2					
32														
33	058-567	RESISTOR, VAR., 2K OHMS, 1/2W, 10%	R15,16		-	-	2	2	2					
34	058-651	RESISTOR, VAR, 2K, 1/2W, 10%	R15,16		2	2	-	-	-					
35	062-932	RESISTOR, M.F., 1.5K, 1/8W, 1%	R4,5,6,7 24-27		8	8	8	8	-					
36	066-160	RESISTOR, M.F., 6.04K, 1/8W, 1%	R12,13,18,23		4	4	4	4	4					
37	062-932	RESISTOR, M.F., 1.5K, 1/8W, 1%	R6,7,26,27						4					

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400215	SHEET 2	REV L					
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02	-03	-04	-05					
38	062-916	RESISTOR, M.F., 750 OHMS, 1/8W, 1%	R4,5,24,25						4				
39	560-470	TRANSFORMER, T13-1T MINI CIRCUITS LAB	T1,2	2	2	2	2	2					
40	280-130	MOUNTING PAD, TRANSISTOR	REF: Q1,2,5,6	4	4	4	4	-					
41	932-035	FERRITE BEAD	REF: Q3,4,7,8	4	4	4	4	-					
42	580-784	TRANSISTOR, MM8006	Q1-8	8	8	8	8	8					
43	932-035	FERRITE BEAD	REF: Q1-8 BASE					8					
44													
45	302-395	MOUSE TAIL		3	3	3	3	3					
46													
47	167-370	CONNECTOR PART, HOUSING, 6 POS	P9		1	1	1	1					
48	167-404	CONNECTOR PART, HOUSING, 2 POS	P8		1	1	1	1					
49	167-692	CONTACT, SOCKET, 30-28 AWG	REF: P8,9		8	8	8	8					
50		WIRE, 28 AWG, STRANDED		A/R	A/R	A/R	A/R	A/R					
51	600-095	TUBING, HEAT SHRINKABLE, .50 DIA	REF: P9	A/R	A/R	A/R	A/R	A/R					
52	232-007	EPOXY 828				A/R	A/R	A/R					
53	232-008	CATALYST "U"				A/R	A/R	A/R					



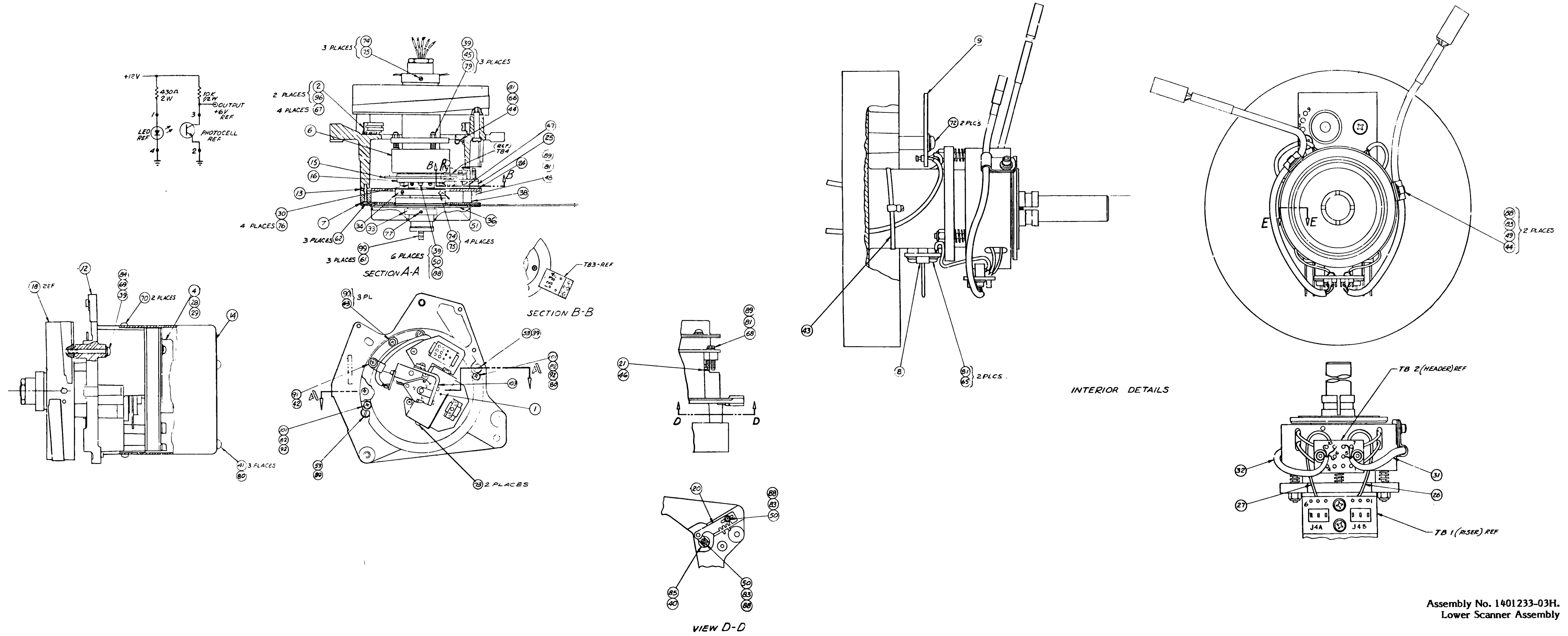
Assembly No. 1400215-05L. Preamplifier PWA, w/Wiring Diagram

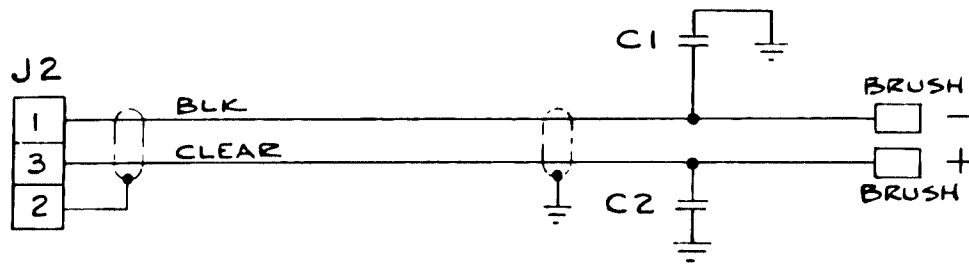


Schematic No. 1400217D.
Preamplifier PWA

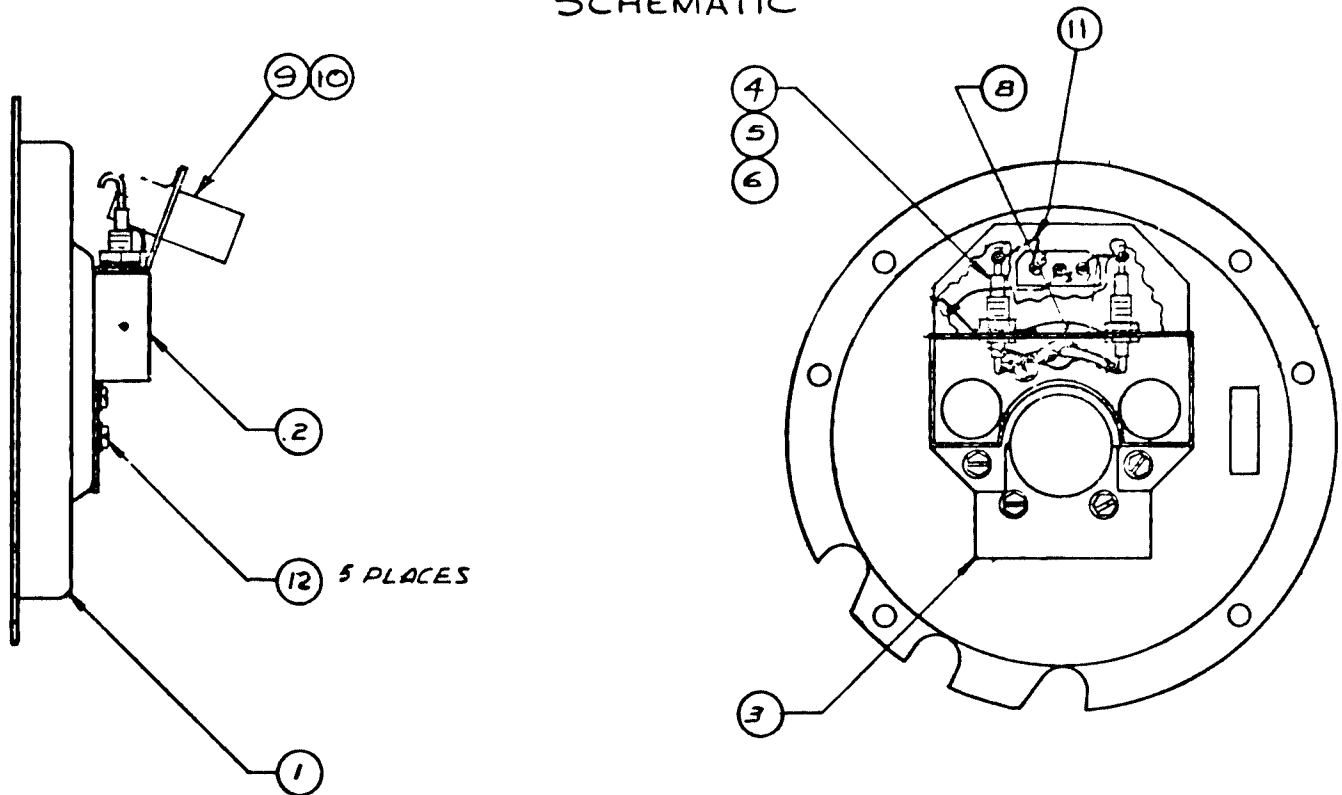
ITEM NO.	PART NUMBER	E	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER										
					-01	-02	-03								
1	1401348-01		COVER, P.C. MOTOR SHIELD		1	1	1								
2	1378820-01		BRACKET, GUIDE MOUNTING	2	2	2									
3	1372932-01		PLATE FRONT, DRUM MOTOR	1	-	-									
4	1401350-01		BRUSH PLATE ASSY	1	1	1									
5	1401147-02		BAND, GUIDE	1	1	1									
6	1401123-02		ROTARY TRANSFORMER ASSY	1	1	1									
7	1378832-02		PLATE FRONT, DRUM MOTOR		1	1									
8	1401148-01		RISER, PWA	1	1	1									
9	1401190-01		CONNECTOR, DRUM TACH, PWA	1	1	1									
10	1401146-01		COVER, LOWER, SCANNER	1	-	-									
11	1401146-02		COVER, LOWER, SCANNER		1	-									
12	1401192-01		ADAPTER MACHINED	1	1	1									
13	1401259-01		PLATE, OPTICAL TACH MOUNT	1	1	1									
14	1461756-AA		COVER, LOWER, SCANNER				1								
15	1401262-01		DISC, ONCE AROUND TACH	1	1	1									
16	1401263-01		RING CLAMP, OPTICAL TACH	1	1	1									
17	1401264-01		SPACER, MOTOR	1	-	-									
18	1401234-01		DRUM SUB-ASSEMBLY, LOWER	1	1	1									
19	1401264-02		SPACER, MOTOR		1	-									
20	1401272-01		LEVER ASSY, ONCE AROUND	1	1	1									
21	1401273-02		SHAFT, OPTICAL TACH	1	1	1									
22	1401233-01		BAND CLAMP	1	1	1									
23	1401239-01		BAND, SPRING	1	1	1									
24	1400652-01		SHIM, ONCE AROUND	A/R	A/R	A/R									
25	1401280-04		ONCE AROUND PICK UP ASSY	1	1	1									
26	1401285-AA		CABLE 2 CONDUCTOR SHIELDED	A/R	A/R	A/R									
27	1401285-AB		CABLE 2 CONDUCTOR SHIELDED	A/R	A/R	A/R									
28	7356040-AA		BRUSH, REPLACEMENT	A/R	A/R	A/R									
29	7356040-AB		BRUSH, REPLACEMENT	A/R	A/R	A/R									
30	1401289-01		COLLAR, ROTARY TRANSFORMER	1	1	1									
31	1401290-AA		CABLE ASSY	1	1	1									
32	1401290-AB		CABLE ASSY	1	1	1									
33	1401396-01		CLAMP, ROTOR MOTOR	1	1	1									
34	1401397-02		HUB, BALANCING	1	1	1									
35	1401293-01		SUPPORT TAPE	1	1	1									
36	1401399-02		ROTOR ASSY, DRUM MOTOR	1	1	1									
37	1401177		WIRING DIAGRAM	REF	REF	REF									

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1401233 SHEET 2	H										
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER													
				-01	-02	-03											
38	1461757-01	SPACER, MOTOR				1											
39	087-023	GLYPTOL 1201 RED	A/R	A/R	A/R												
40	018-461	ADHESIVE, THD LOCK	A/P	A/P	A/R												
41	250-225	BUMPER	1	3	3												
42	302-308	CLAMP, LOOP .188 I.D.	1	1	1												
43	296-004	LACING, NYLON, BLACK	A/R	A/R	A/R												
44	302-120	CLAMP, CABLE, .125 DIA	1	3	3												
45	352-494	SPRING, COMPRESSION .180 O.D. x .375 LG	3	3	3												
46	430-532	RING, RETAINING, BOWED, "E" .187 DIA.	1	1	1												
47	406-020	PIN, SPRING, ROLL, .062 DIA. x .250 LG.	2	2	2												
48	470-061	SCREW, CAP SOC, 4-40 x .375 LG.	1	1	1												
49	470-001	SCREW, CAP SOC, 2-56 x .188 LG.	2	2	2												
50	470-003	SCREW, CAP SOC, 2-56 x .312 LG.	3	3	8												
51	470-063	SCREW, CAP SOC HD, 4-40 x .50 SST	2	2	2												
52																	
53	470-575	SCREW, CAP, SHOULDER 8-32 x 1.00 LG., .183 THD SST	2	2	2												
54																	
55																	
56	470-673	SCREW, BUTTON HD., 2-56 x .125 LG. SST	28	28	28												
57	018-501	EPOXY TYPE C1 + ACTIV, E CLEAR FROZEN	A/R	A/R	A/R												
58	232-007	B28 RESIN	A/R	A/R	A/R												
59	232-008	CATALYST	A/R	A/R	A/R												
60	471-075	SCREW, PAN HD., 6-32 x 1.00 LG.	2		-												
61	471-110	SCREW, PAN HD., 4-40 x .25 LG. SST	1	1	3												
62	471-341	SCREW, FLAT HD., 6-32 x .875 LG.	3	3	3												
63	471-448	SCREW, PAN HD., 6-32 x 1.25 LG.	3	3	3												
64	471-969	SCREW, BUTTON HD., 2-56 x .188 LG. SST	1		1												
65	473-326	SCREW, PAN HD., SEM 4-40 x .38 LG.	2	2	2												
66	473-325	SCREW, ASSEM, PAN HD., 4-40 x .312 LG.	1		1												
67	473-330	SCREW, ASSEM, PAN HD., 6-32 x .250 LG.	4	4	4												
68	473-745	SCREW, HEX HD., 4-40 x .375 LG.	1		1												
69	473-881	SCREW, PAN HD., ASSEM, 8-32 x 1.50 LG.	1		1												
70	473-330	SCREW, MACH., PAN HD., ASSEM 6-32 x .25 LG.	2	2	2												
71																	
72	475-095	SCREW, PAN HD., SEM., 6-32 x .875 LG.	2	2	2												
73	476-024	SCREW, PAN HD., 4-24 x .25 LG. THD FORM	2	2	2												
74	477-338	SCREW, LKG. SET, HEX SOC., CUP PT., 8-32 x .312 LG.	A/R	A/R	A/R												
75	477-363	SCREW, LKG. SET HEX SOC., CUP PT., 8-32 x .25 LG.	A/R	A/R	A/R												
76	477-620	SCREW, SET, HALF-DOG POINT, 8-32 x .188 LG.	4	4	4												
77	477-145	SCREW, SET, FLAT POINT, 4-40 x .188 LG.	3	3	3												
78																	
79	493-013	NUT, LOCK, 2-56	3	3	3												
80	496-005	NUT, HEX, CAPTIVE LOCK WASHER, 6-32	3	4	4												
81	501-008	WASHER, PLAIN #4	5	5	5												
82	501-188	WASHER, PLAIN #6	2	2	2												





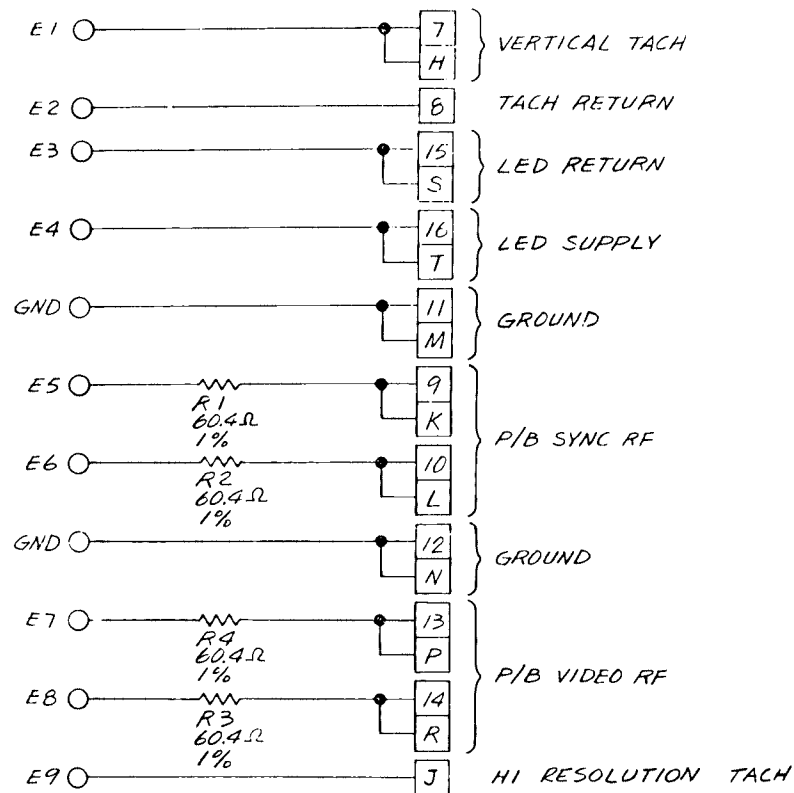
SCHEMATIC



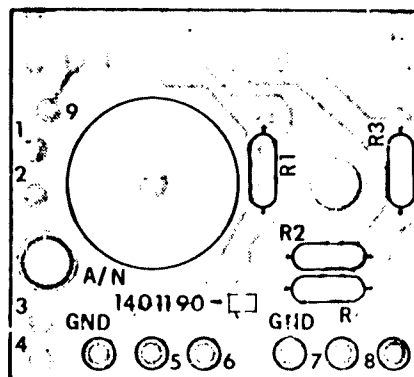
5	12	476-361		Screw, Hex Hd., #4 x .25 Lg, Thd. Form
11				WIRE, 20 AWG
3	10	166-200		PIN, CONNECTOR
1	9	167-451		HOUSING, CONNECTOR, (3) PIN
8	8	600-095		SLEEVING, POLYOLEFIN, SHRINKABLE
2	7	7356040-01		Brush, Motor
1	6	172-036		LUG, SOLDER
2	5	502-059		WASHER LOCK #12 INTERNAL TOOTH
2	4	030-486		CAPACITOR, CERAMIC, 2300PF, 500V
1	3	1378774-01		SHIELD, PLATE, PC MOTOR
1	2	1401349-02		SHIELD, HOUSING, PC MOTOR
1	1	1378837-01		BRUSH PLATE
01	ITEM NO	PART NUMBER		DESCRIPTION
PARTS LIST				

Assembly No. 1401350-01E. Brush Plate Assembly



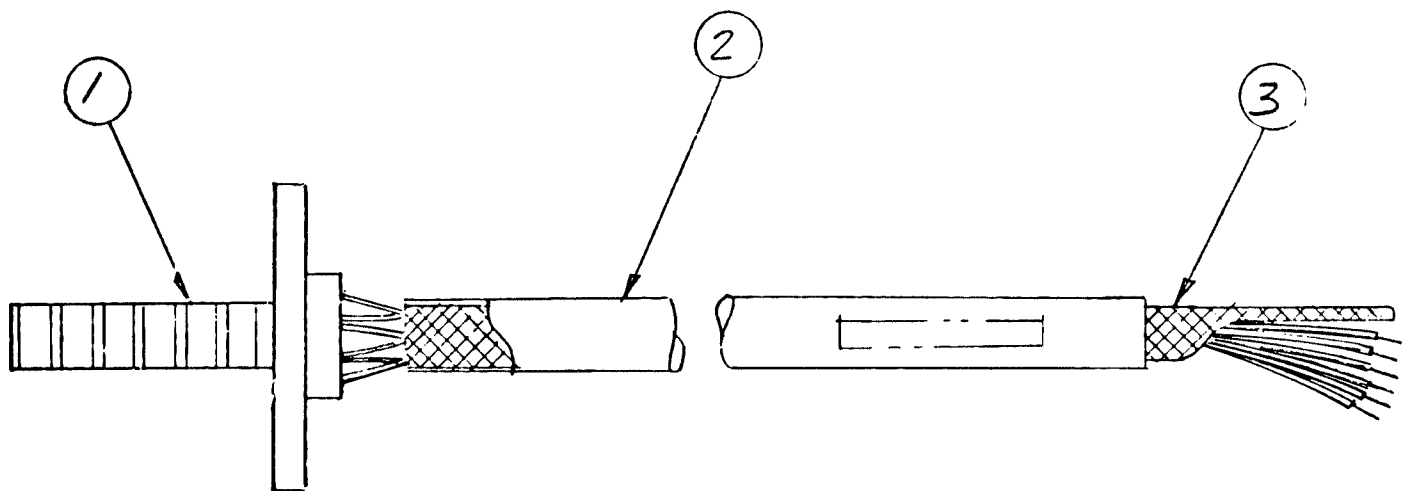
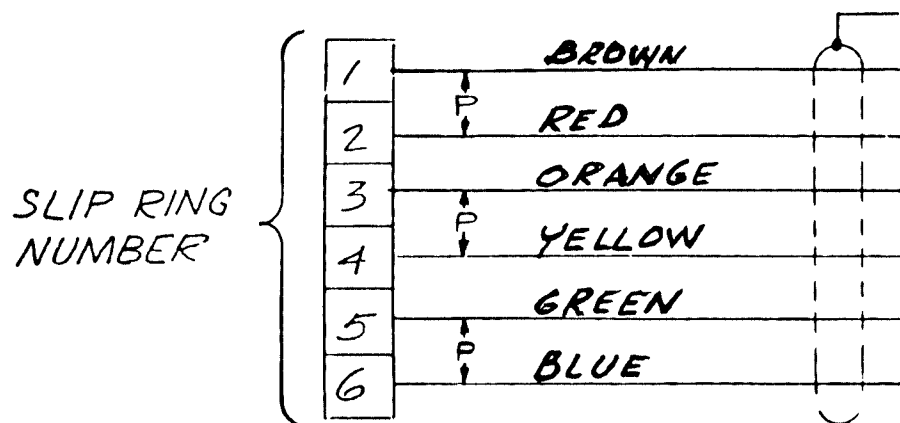


SCHEMATIC



4	2	066-595	RESISTOR, M.F., 60.4Ω, 1/8W, 1%	R1-4
01	ITEM NO	PART NUMBER		DESCRIPTION

Assembly No. 1401190-01C. Drum Tach Connector PWA

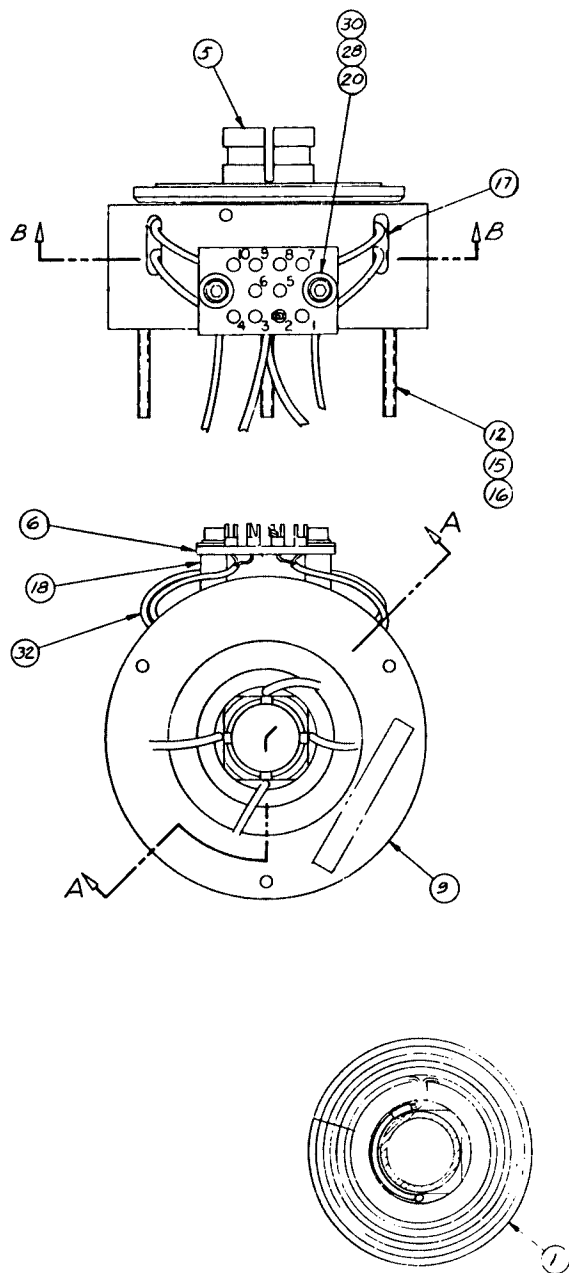


AR	3	618-004	SHIELDING
AR	2	600-090	SLEEVING, SHRINK, .188 I.D. BLK.
1	1	1408144-01	SLIP RING ASSY
01	ITEM NO.	PART NUMBER	DESCRIPTION

Assembly No. 1400881-01A. Slip Ring Assembly (Mod)

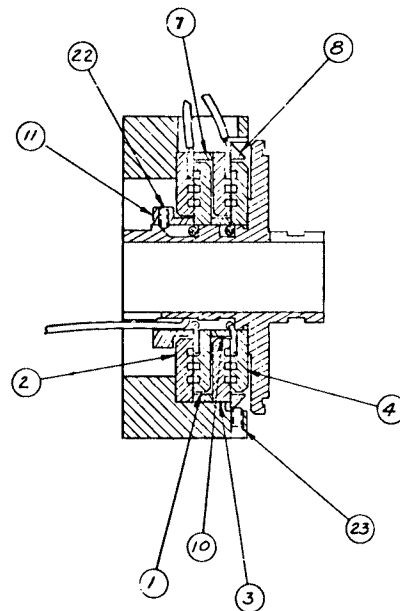
ROTARY TRANSFORMER ASSEMBLY
NEXT HIGHER ASSEMBLY 1401233

[illegible]



PARTIAL SECTION B-B

WIRING TABLE	
FROM	TO
REF DESIG	BOARD TERM NO.
T1	1
	2
T2	3
	4
T3	CTR TAP
	2 WIRES
	5
T4	7
	8
	CTR TAP
	2 WIRES
	6
	9
	10

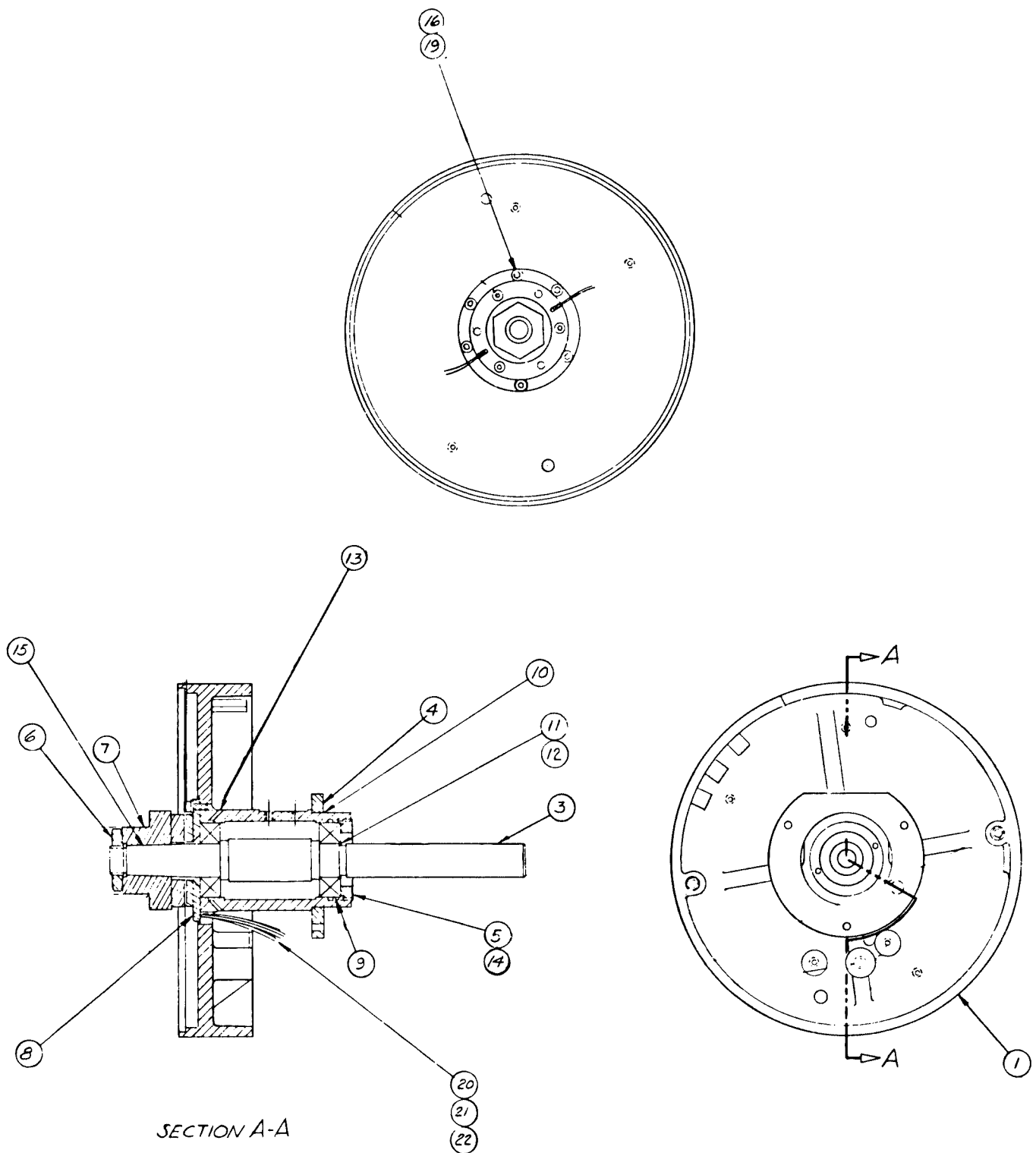


SECTION A-A

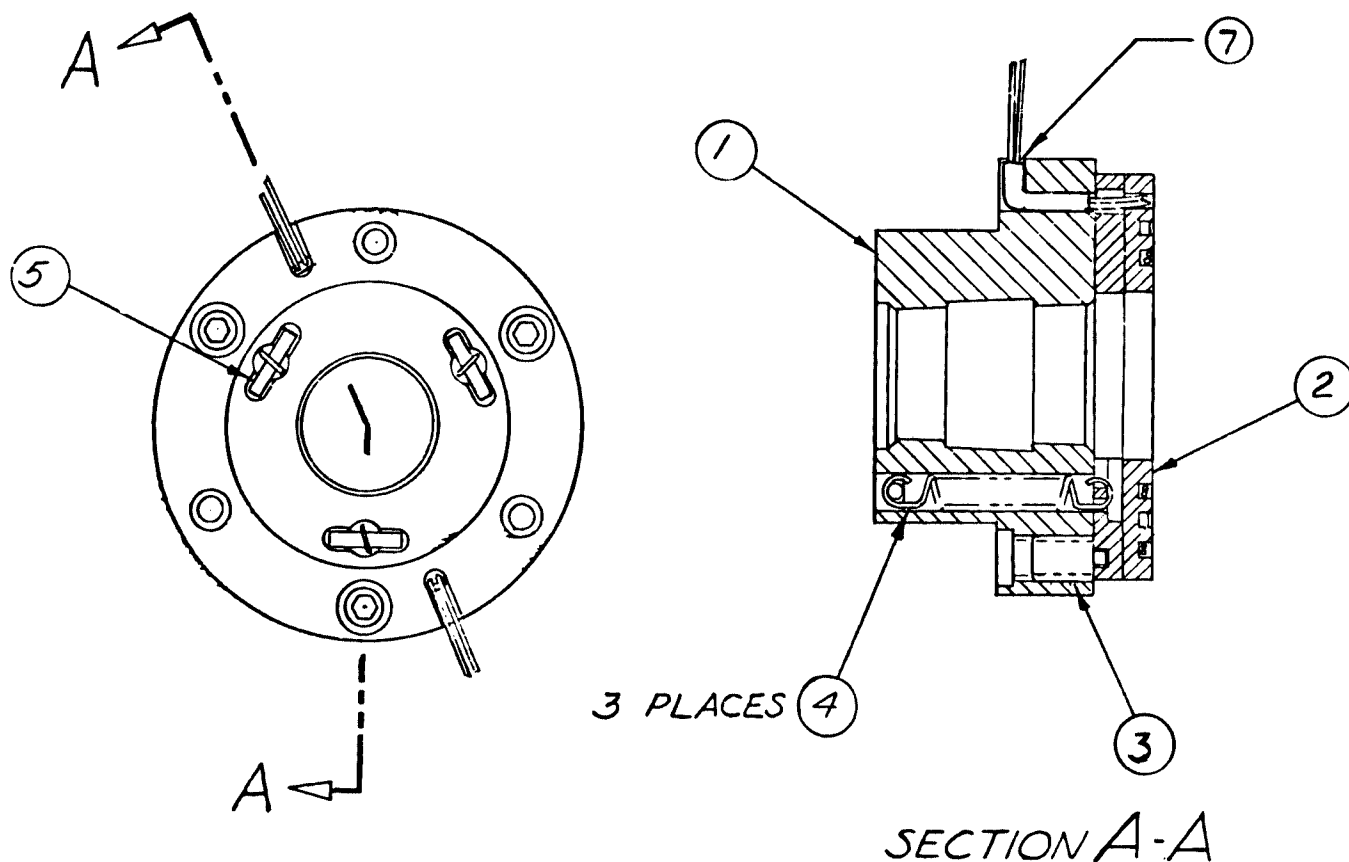
Assembly No. 1401123-02D. Rotary Transformer Assembly

REV. —

[illegible]

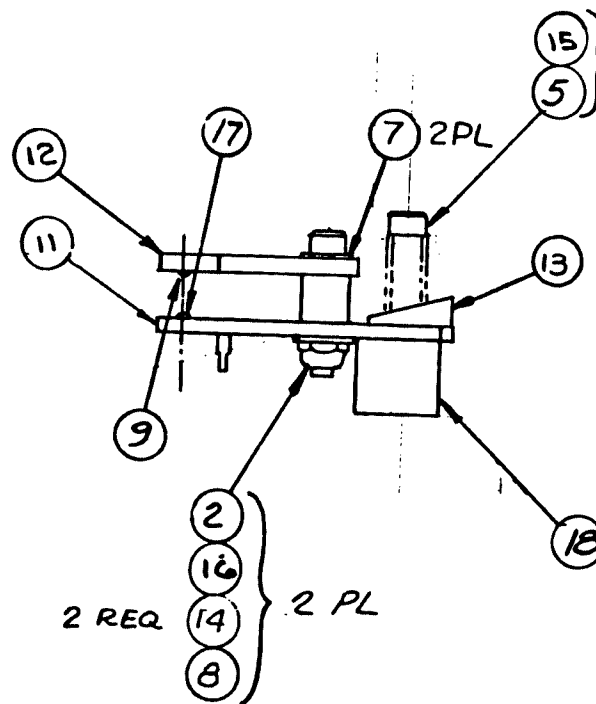


Assembly No. 1401234-01—. Lower Drum Sub-Assembly



A/R	7	600-036	SLEEVING, TEFLON, FLEX, .035 I.D., NATURAL
A/R	6	617-056	WIRE 20 AWG.
3	5	402-997	PIN, DOWEL .062 DIA X .250 LG
3	4	352-495	SPRING, EXTENSION
3	3	1401257-01	SCREW, ADJUST
1	2	1401254-01	ROTOR ASSEMBLY
1	1	1401248-01	HUB, SCANNER
01	ITEM NO.	PART NUMBER	DESCRIPTION

Assembly No. 1401236-01B. Hub Scanner Assembly

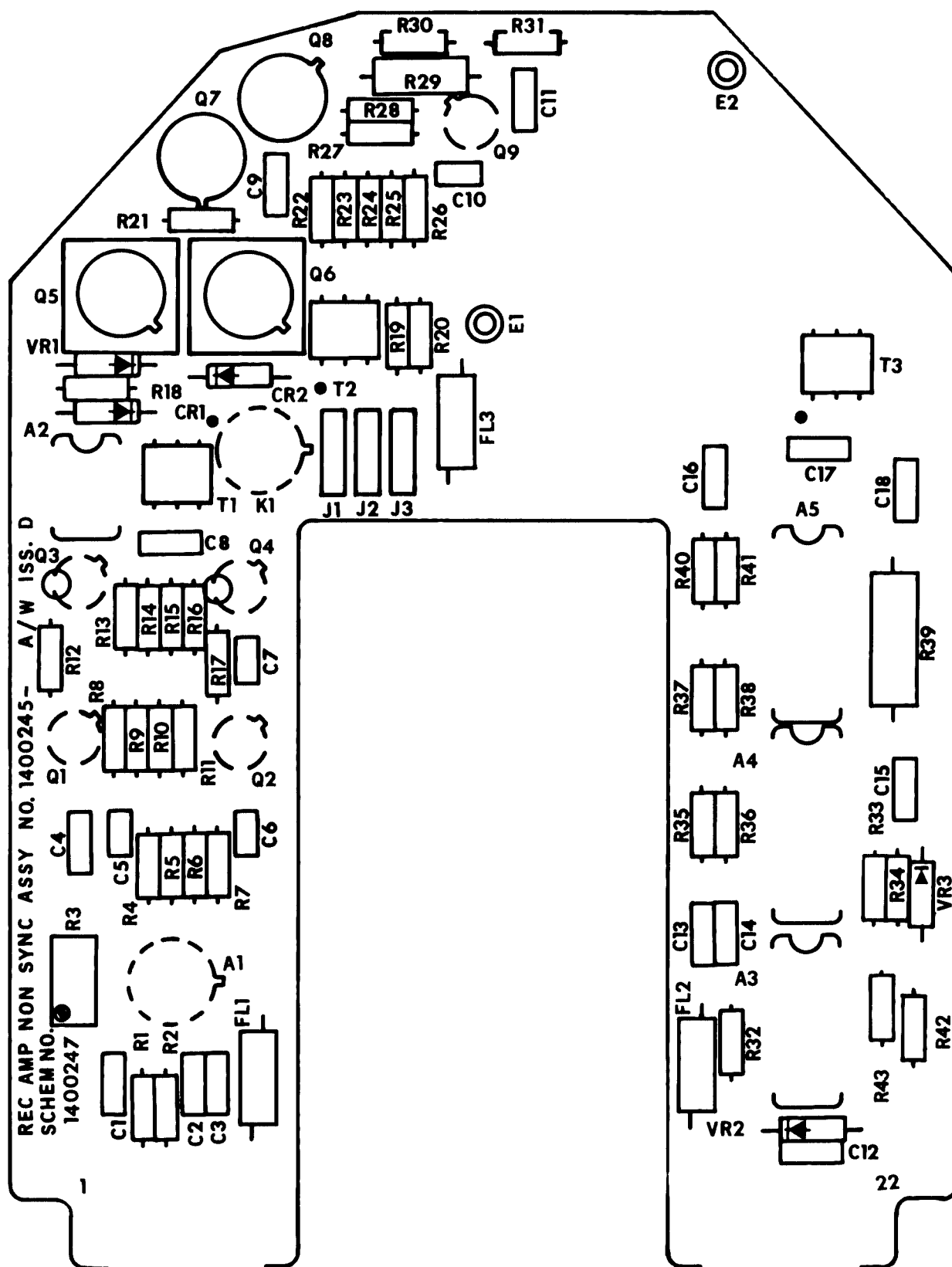


1	-	-	18	1401274-02	PIVOT BLOCK
1	1	1	17	580-998	NPN PLANAR, SILICON PHOTO TRANSISTOR (TIL603)
2	2	2	16	470-006	SCREW, SOC HD CAP, 2-56 x .50 LG
2	2	2	15	470-518	SCREW, SOC HD CAP, 2-56 x .625 LG
2	2	2	14	501-184	WASHER, PLAIN, #2, SMALL PATTERN
1	1	1	13	1401356-01	CLAMP, ONCE AROUND PICK UP
1	1	1	12	1401145-02	ONCE AROUND LED PWB
1	1	1	11	1401144-02	ONCE AROUND LIGHT DETECTOR PWB
-	-	1	10	580-968	NPN PLANAR, SILICON PHOTO TRANSISTOR
1	1	1	9	581-558	LED, INFRARED
2	2	2	8	493-168	NUT, LOCK, 2-56, SMALL PATTERN
2	2	2	7	501-155	WASHER, PLAIN, #2
-	-	1	6	470-518	SCREW, SOC HD CAP, 2-56 x .625 LG.
2	2	2	5	352-493	SPRING
-	-	1	4	1401145-01	ONCE AROUND LED PWB
-	-	1	3	1401144-01	ONCE AROUND LIGHT DETECTOR PWB
2	2	2	2	1401279-01	SPACER
-	1	1	1	1401274-01	PIVOT BLOCK
0403	02	01	ITEM NO.	PART NUMBER	DESCRIPTION

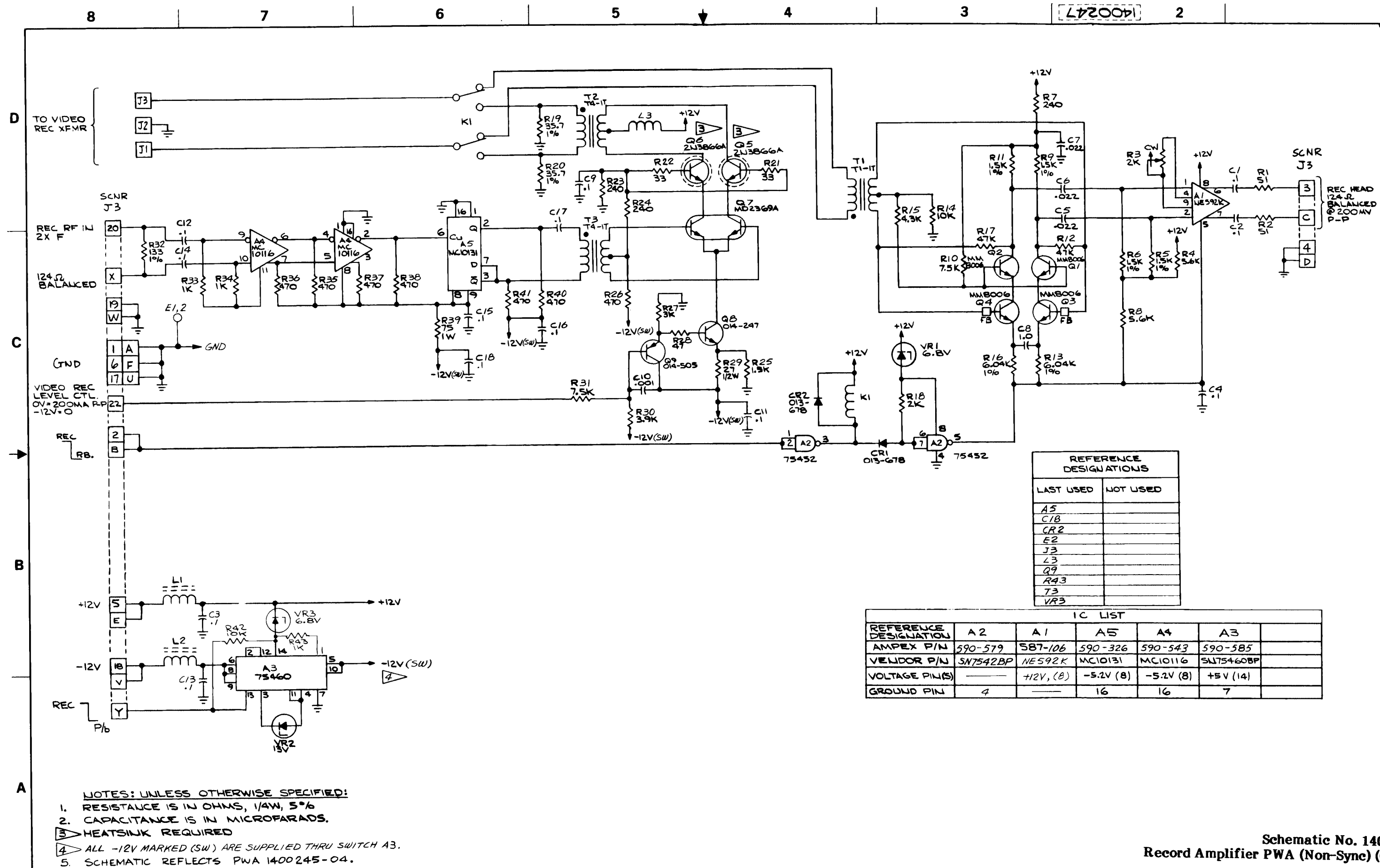
Assembly No. 1401280-04F. Once Around Pickup Subassembly

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02	-03	-04						
1					1								
2													
3	1400247	SCHEMATIC		A	B	B	F						
4													
5	1374188-01	INDUCTOR, FILTER	L1-3	3	3	3	3						
6													
7	013-224	DIODE, ZENER, 6.8V, 1N1547	VR1,3	2	2	2	2						
8	013-371	DIODE, ZENER, 13V, 1N1548	VR2	1	1	1	1						
9	013-678	DIODE, POWER, 1A, 250V	CR1,2	2	2	2	2						
10													
11	014-247	TRANSISTOR, 2N2219	Q8	1	1	1	1						
12	014-505	TRANSISTOR, 2N3251	Q9	1	1	1	1						
13	014-952	TRANSISTOR, MD2369A	Q7	1	1	1	1						
14	580-784	TRANSISTOR, MM8006	Q1-4	4	4	4	4						
15	590-956	TRANSISTOR, 2N3866A	Q5,6	2	2	2	2						
16													
17	020-915	RELAY, 12V	K1	1	1	1	1						
18													
19	030-963	CAPACITOR, CER, 0.1uF, 100V, 10%	C1-4,9,11-18	13	13	13	13						
20	064-300	CER, .022uF, 100V, 20%	C5-7	3	3	3	3						
21	064-314	CER, 1uF, 50V, 20%	C8	1	1	1	1						
22	069-090	CAPACITOR, POLY, .001uF, 50V	C10	1	1	1	1						
23													
24	066-834	RESISTOR, C.F. 33 OHMS, 1/4W, 5%	R21,22	2	2	2	2						
25	066-938	47 OHMS,	R28	1	1	1	1						
26	066-811	51 OHMS	R1,2	2	2	2	2						
27	066-859	240 OHMS,	R7,23,24	3	3	3	3						
28	066-818	470 OHMS,	R26,35-38,40,41	7	7	7	7						
29	066-827	3.9K OHMS,	R30	1	1	1	1						
30	066-718	5.6K OHMS,	R8,4	2	2	2	2						
31	066-828	4.3K OHMS,	R15	1	1	1	1						
32	066-711	7.5K OHMS,	R10,31	2	2	2	2						
33	066-826	2K OHMS,	R18	1	1	1	1						
34	066-667	3K OHMS,	R27	1	1	1	1						
35	066-830	10K OHMS,	R14	1	1	1	1						
36	066-665	1K OHMS,	R33,34	2	2	2	2						
37	066-717	RESISTOR, C.F., 47K OHMS, 1/4W, 5%	R12,17	2	2	2	2						

[illegible]



Assembly No. 1400245-04J. Record Amplifier PWA (Non Sync)













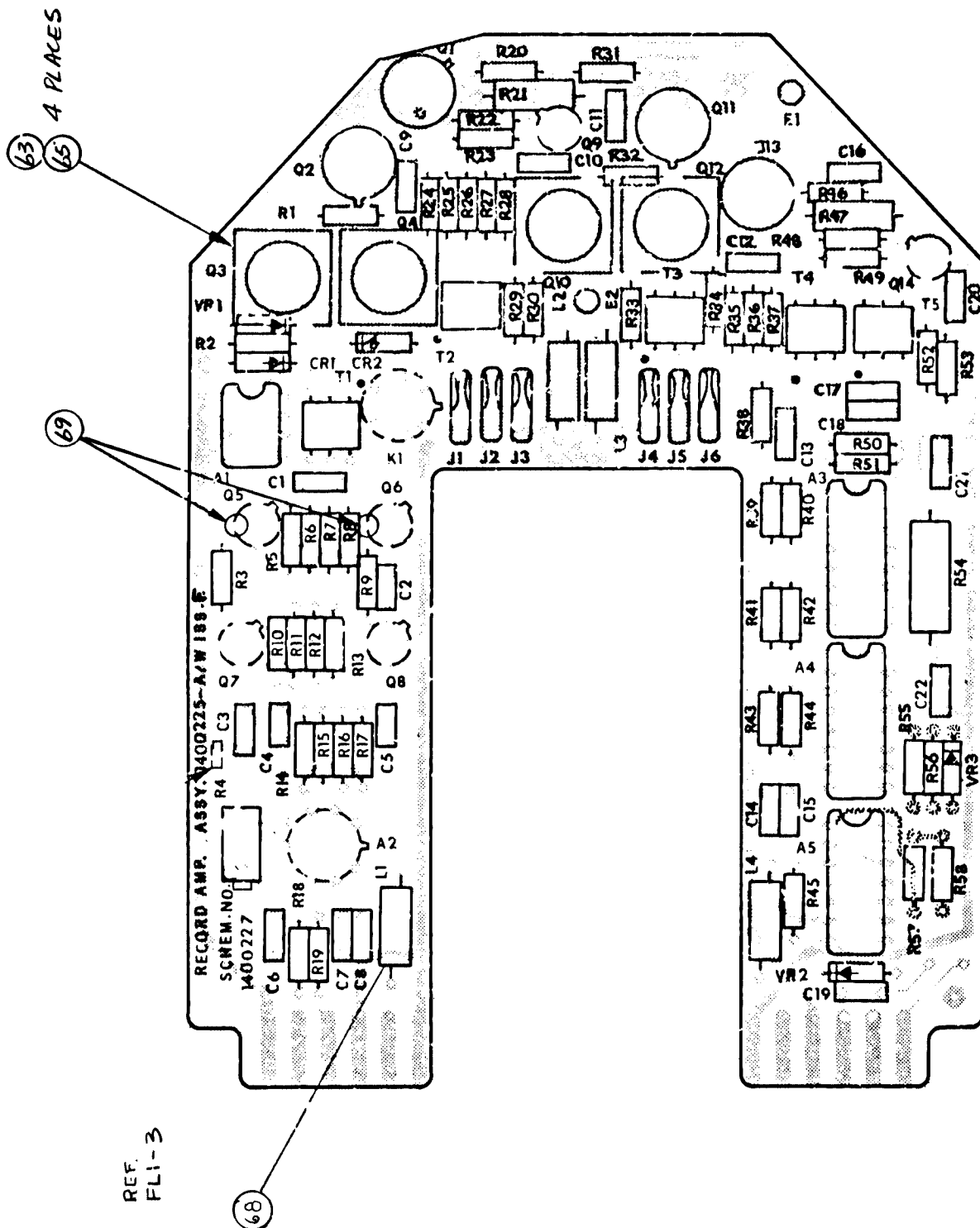
REFERENCE DESIGNATIONS	
LAST USED	NOT USED
A5	
C18	
CR2	
E2	
J3	
L3	
Q9	
R43	
T3	
VR3	

IC LIST					
REFERENCE DESIGNATION	A2	A1	A5	A4	A3
AMPEX P/N	590-579	587-106	590-326	590-543	590-585
VENDOR P/N	SN7542BP	NE592K	MC10131	MC10116	SN75460BP
VOLTAGE PIN(S)		+12V, (8)	-5.2V (8)	-5.2V (8)	+5V (14)
GROUND PIN	4		16	16	7

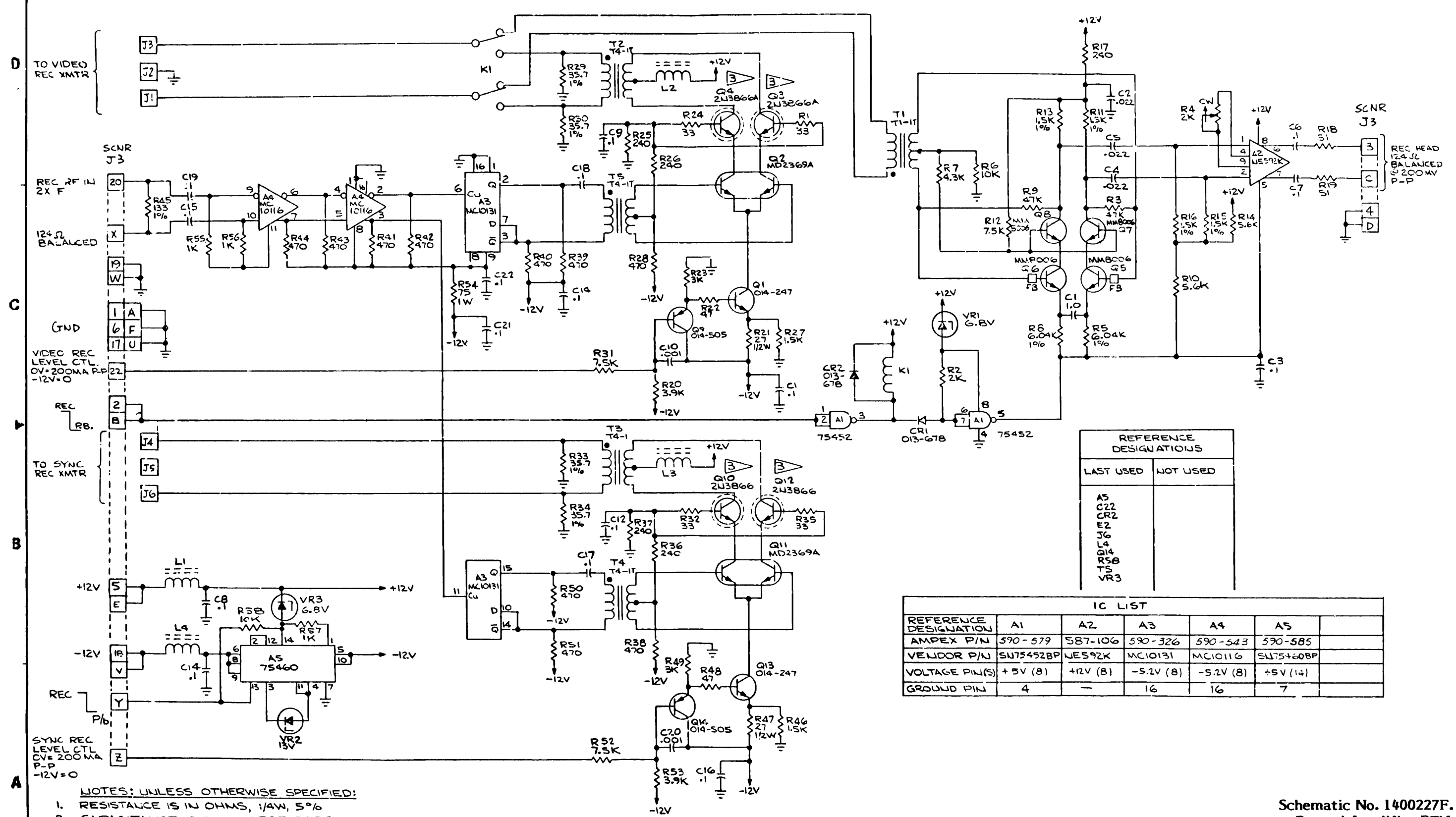
Schematic No. 1400247F.
Record Amplifier PWA (Non-Sync) (Option)

ITEM NO.	PART NUMBER	DESCRIPTION	REF. DESIG.	QTY REQD PER DASH NUMBER									
				-01	-02	-03							
1				-01	-02	-04							
3	1400227	SCHEMATIC	C	E	E								
4													
5	1374188-01	INDUCTOR, FILTER	L1-4	4	4	4							
6													
7	013-224	DIODE, ZENER, 6.8V, 1N754A	VR1,3	2	2	2							
8	013-371	DIODE, ZENER, 13V, 1N964B	VR2	1	1	1							
9	013-678	DIODE, POWER, 1N4385	CR1,2	2	2	2							
10													
11	014-247	TRANSISTOR, 2N2219	Q1,13	2	2	2							
12	014-505	TRANSISTOR, 2N3251	Q9,14	2	2	2							
13	014-852	TRANSISTOR, MD2369A	Q2,11	2	2	2							
14	580-784	TRANSISTOR, MM8006	Q5-8	4	4	4							
15	530-956	TRANSISTOR, 2N3866A	Q3,4,10,12	4	4	4							
16													
17	020-915	RELAY, 12V	K1	1	1	1							
18													
19	030-963	CAPACITOR, CER, 0.1uF, 100V, 10%	C3,6-9,11-19, 21,22	16	16	16							
20	064-300	CER, .022uF, 100V, 20%	C2,4,5	3	3	3							
21	064-314	CER, 1uF, 50V, 20%	C1	1	1	1							
22	069-090	CAPACITOR, POLY, .001uF, 50V	C10,20	2	2	2							
23													
24	066-834	RESISTOR, C.F., 33 OHM, 1/4W, 5%	R1,24,32,35	4	4	4							
25	066-938	47 OHM	R22,48	2	2	2							
26	066-811	51 OHM	R18,19	2	2	2							
27	066-859	240 OHM	R17,25,26,36,37	5	5	5							
28	066-818	470 OHM	R28,38-44,50,51	10	10	10							
29	066-827	3.9K OHM	R20,53	2	2	2							
30	066-718	5.6K OHM	R10,14	2	2	2							
31	066-828	4.3K OHM	R7	1	1	1							
32	066-711	7.5K OHM	R12,31,52	3	3	3							
33	066-826	2K OHM	R2	1	1	1							
34	066-667	3K OHM	R23,49	2	2	2							
35	066-830	10K OHM	R6	1	1	1							
36	066-665	1K OHM	R55,56	2	2	2							
37	066-717	RESISTOR, C.F., 47K OHM, 1/4W, 5%	R3,9	2	2	2							

AMPEX		CODE IDENT NO.		LIST OF MATERIALS		LM-1400225		SHEET 2	
ITEM NO	PART NUMBER	DESCRIPTION		REF DESIG	QTY REQD PER DASH NUMBER				
					-01	-02	-03		
38	066-824	RESISTOR, C.F., 1.5K OHM, 1/4W, 5%		R46,27	2	2	2		
39									
40	041-433	RESISTOR, COMP, 27 OHM, 1/2W, 5%		R21,47	2	2	2		
41									
42	041-829	RESISTOR, COMP, 75 OHM, 1W, 5%		R54	1	1	1		
43									
44	058-651	RESISTOR, VAR, 2K OHM		R4	1		-		
45	058-567	RESISTOR, VAR., 2K OHM, 1/2W, 10%		R4			1		
46	076-072	RESISTOR, H.F., 35.7 OHM, 1/8W, 1%		P29,30,33,34	4	4	4		
47	062-860		133 OHM, 	R45	1	1	1		
48	062-932		1.5K OHM, 	R11,13,15,16	4	4	4		
49	066-160	RESISTOR, H.F., 6.04K OHM, 1/8W, 1%		R5,8	2	2	2		
50									
51									
52	590-579	INTEGRATED CIRCUIT, 75452		A1	1		1		
53	587-106		1E592K	A2	1	1	1		
54	590-326		MC10131	A3	1	1	1		
55	590-543		MC10116	A4	1	1	1		
56	590-585	INTEGRATED CIRCUIT, 75460		A5	1	1	1		
57	560-471	TRANSFORMER, RF, MCL, T1-1T		T1	1	1	1		
58	570-435	TRANSFORMER, RF, MCL, T4-1T		T2-5	4	4	4		
59									
60	280-180	MOUNTING PAD, TRANSISTOR,		REF: Q1,3,4,10,12,13	6	6	6		
61	280-130	MOUNTING PAD, TRANSISTOR		REF: Q7-9,14	4	4	4		
62									
63	014-613	HEATSINK		REF:Q3,4,10,12	4	4	4		
64									
65	087-388	COMPOUND, HEATSINK		REF:Q3,4,10,12	A/R	A/R	A/R		
66									
67	167-429	CONTACT, SOCKET, P.C.		REF: J1-6	6	6	6		
68		SLEEVING, SHRINK, CLEAR		REF: FL1-3	A/R	A/R	A/R		
69	932-035	FERRITE BEAD		REF: Q5,6	2	2	2		
70	066-830	RESISTOR, CF, 10K OHM, 1/4W, 5%		R6,58		2	2		
71	066-665	RESISTOR, CF, 1K OHM, 1/4W, 5%		R55-57		3	3		
NOTES:									
 INDICATES PRESTRESSED I.C.'S									



Assembly No. 1400225-03P. Record Amplifier PWA (Sync)

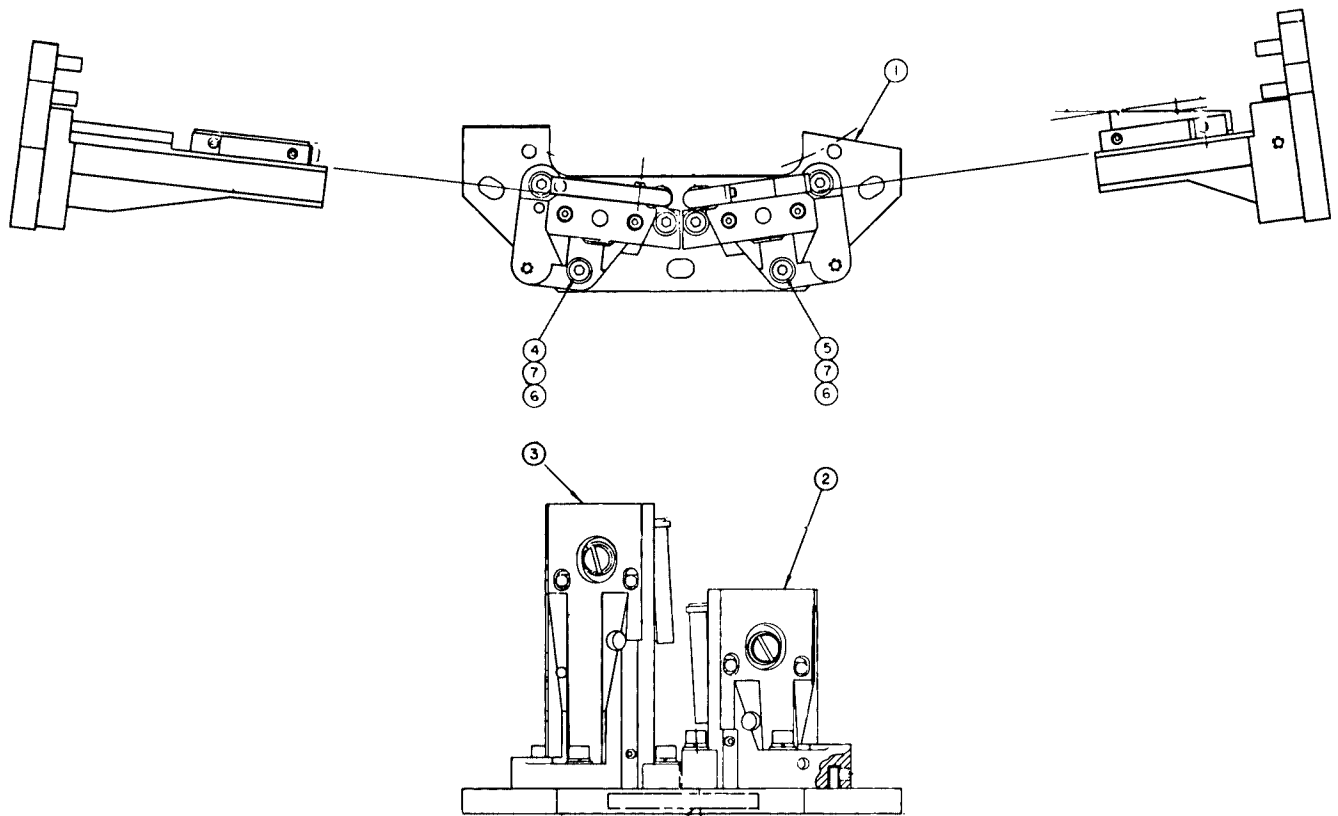


REFERENCE DESIGNATIONS	
LAST USED	NOT USED
A5	
C22	
CR2	
E2	
J6	
L4	
Q14	
R5B	
T5	
VR3	

IC LIST					
REFERENCE DESIGNATION	A1	A2	A3	A4	A5
AMPEX P/N	590-579	587-106	590-326	590-543	590-585
VELOCITY P/N	SN75452BP	NE592K	MC10131	MC10116	SN75460BP
VOLTAGE PIN(S)	+5V (8)	+12V (8)	-5.2V (8)	-5.2V (8)	+5V (14)
GROUND PIN	4	-	16	16	7

- NOTES: UNLESS OTHERWISE SPECIFIED:
1. RESISTANCE IS IN OHMS, 1/4W, 5%
 2. CAPACITANCE IS IN MICROFARADS.
 3. HEATSINK REQUIRED
 4. THIS SCHEMATIC REFLECTS PWA 1400225-03

Schematic No. 1400227F.
Record Amplifier PWA
(Sync) (Accessory)

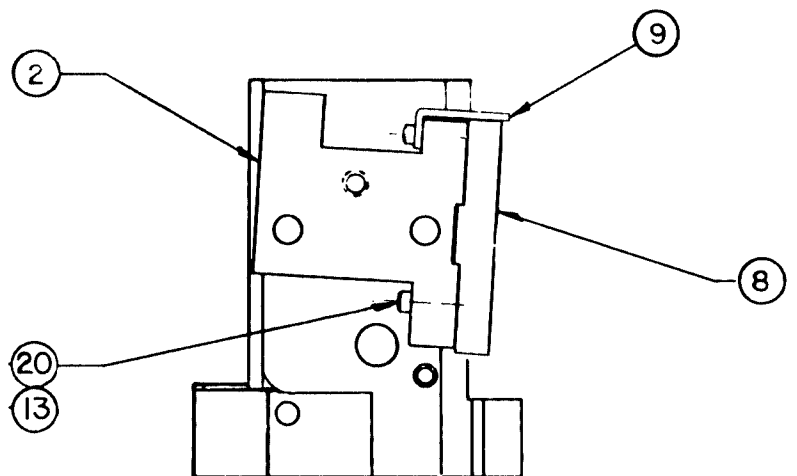
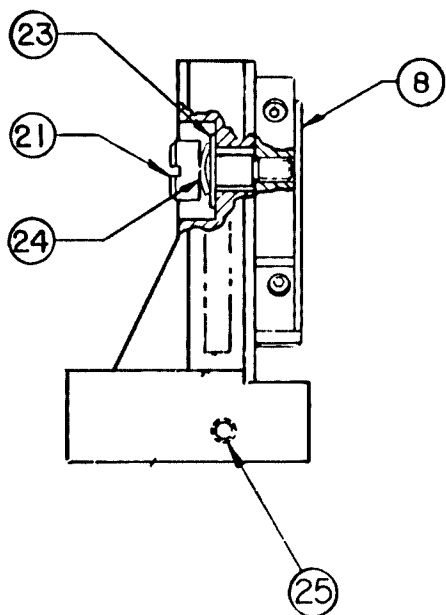
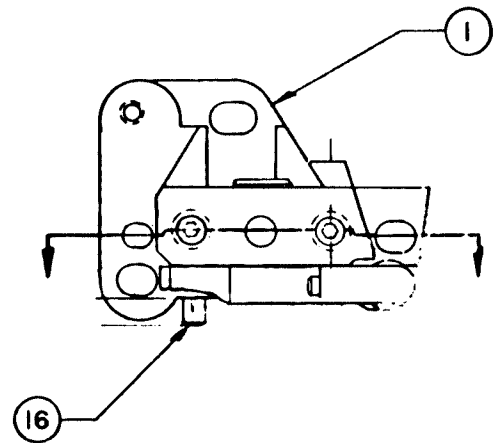
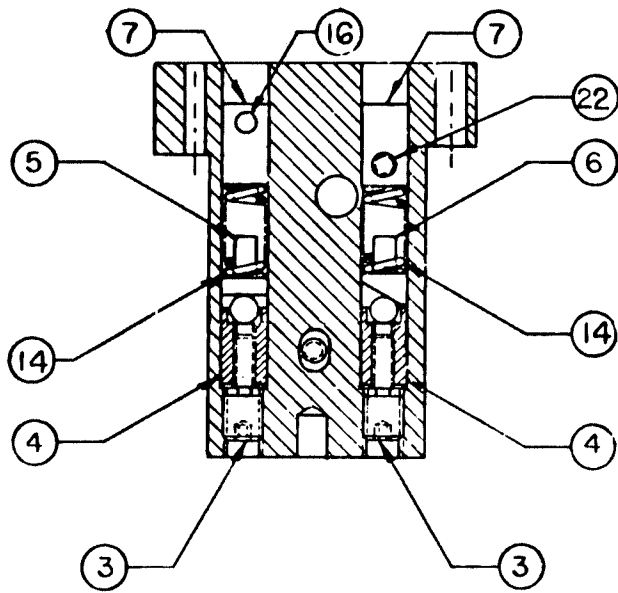


6	7	501-169	WASHER, FLAT, NO.4, .250.D.
6	6	502-002	WASHER, LOCK, HELICAL SPRING, NO. 4
3	5	470-394	SCREW, HEX SOC HD, 4-40 X .562 LG
3	4	470-011	SCREW, HEX SOC HD, 4-40 X .438 LG
1	3	1401097-01	GUIDE PIN ASSY-EXIT
1	2	1401220-01	GUIDE PIN ASSY-ENTRY
1	1	1401240-01	PLATE, GUIDE MOUNTING
-01	ITEM NO	PART NUMBER	DESCRIPTION

Assembly No. 1401098-01—. Tape Guide Assembly

ENTRY GUIDE PIN ASSEMBLY
NEXT HIGHER ASSEMBLY 1401098

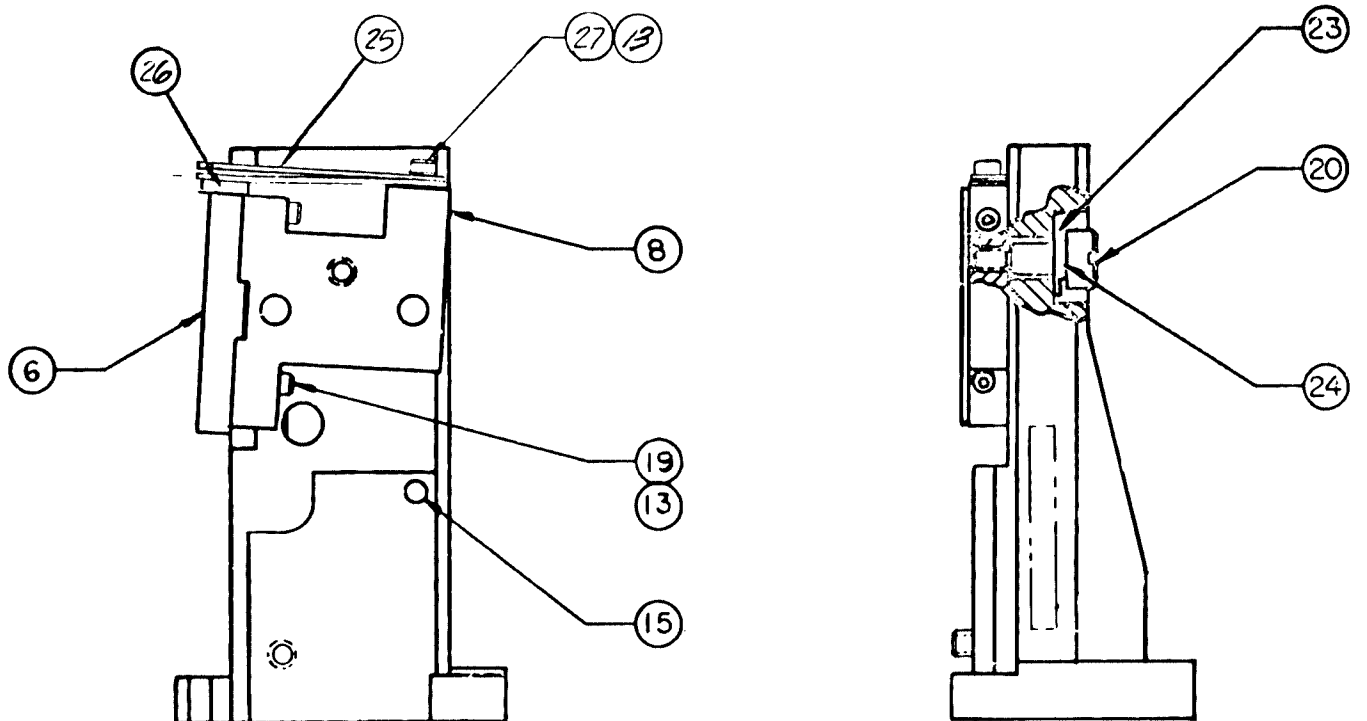
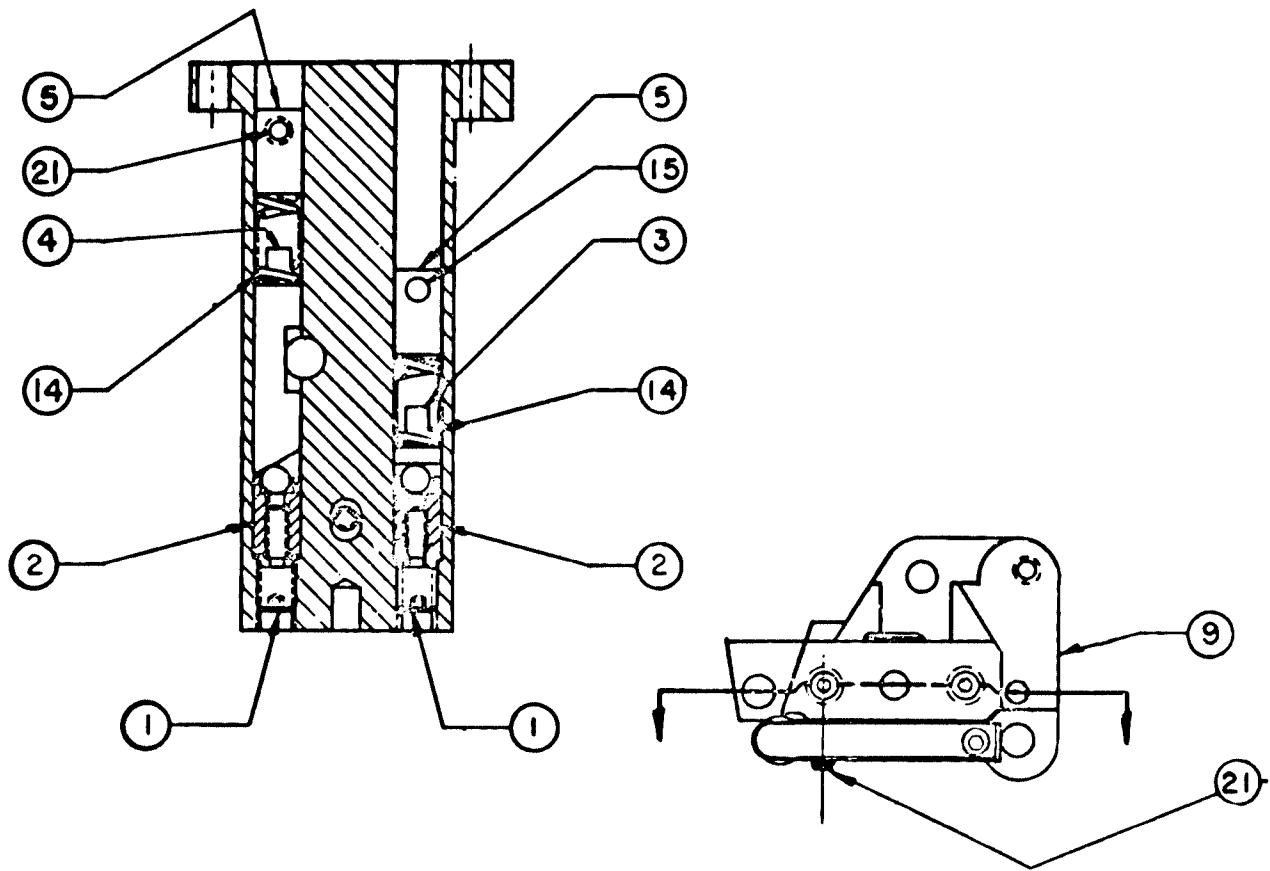
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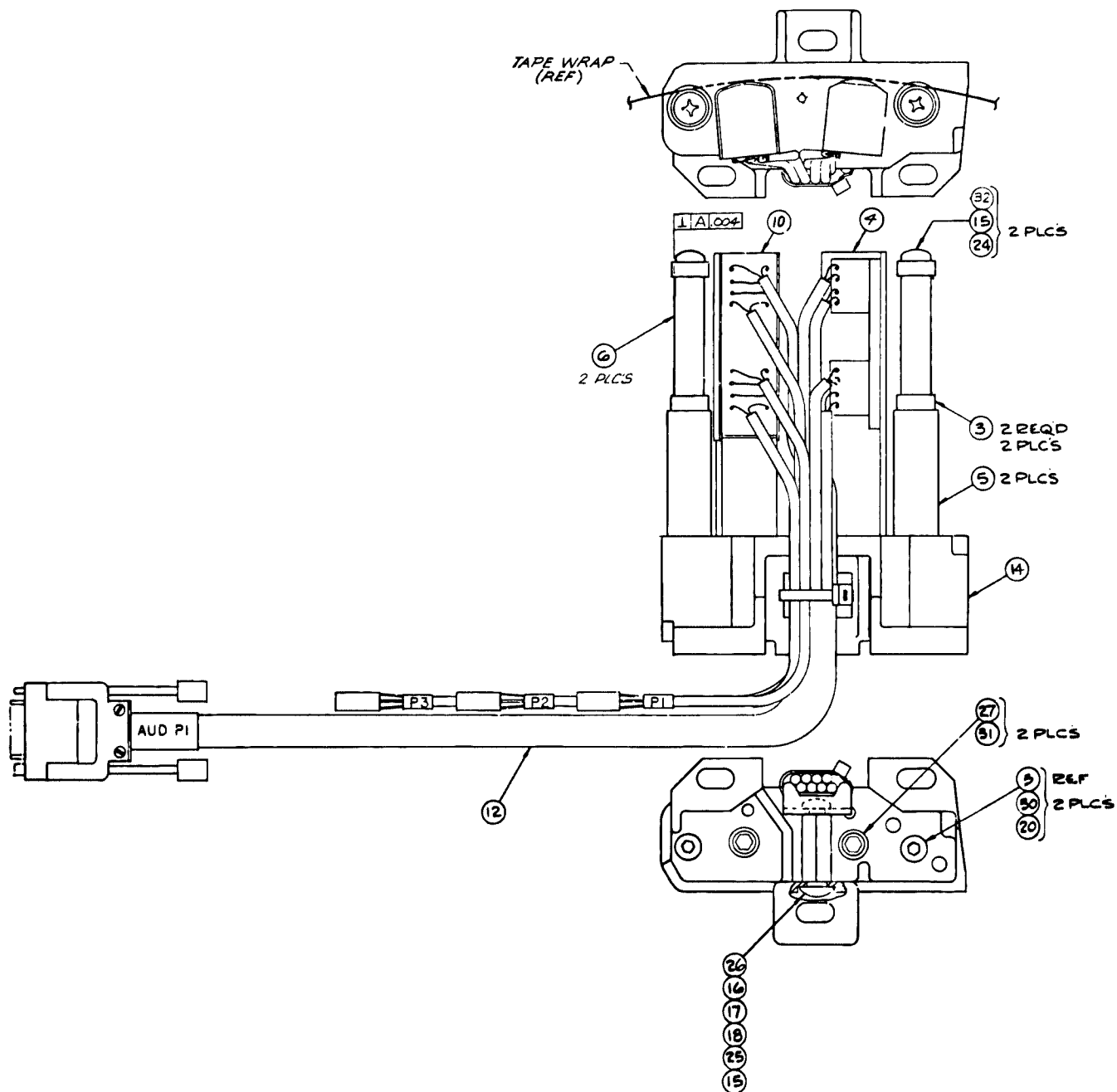
Assembly No. 1401220-01D. Entry Guide Pin Assembly

EXIT GUIDE PIN ASSEMBLY
NEXT HIGHER ASSEMBLY 1401098

[illegible]



Assembly No. 1401097-01—. Exit Guide Pin Assembly



Assembly No. 1400801-07L. Three Channel Audio Assembly Kit

3 CHANNEL AUDIO HEAD HARNESS ASSEMBLY
NEXT HIGHER ASSEMBLY 1400801

REV. D

[illegible]

4 CHANNEL AUDIO ASSEMBLY KIT (625 LINE ONLY)

REV. C

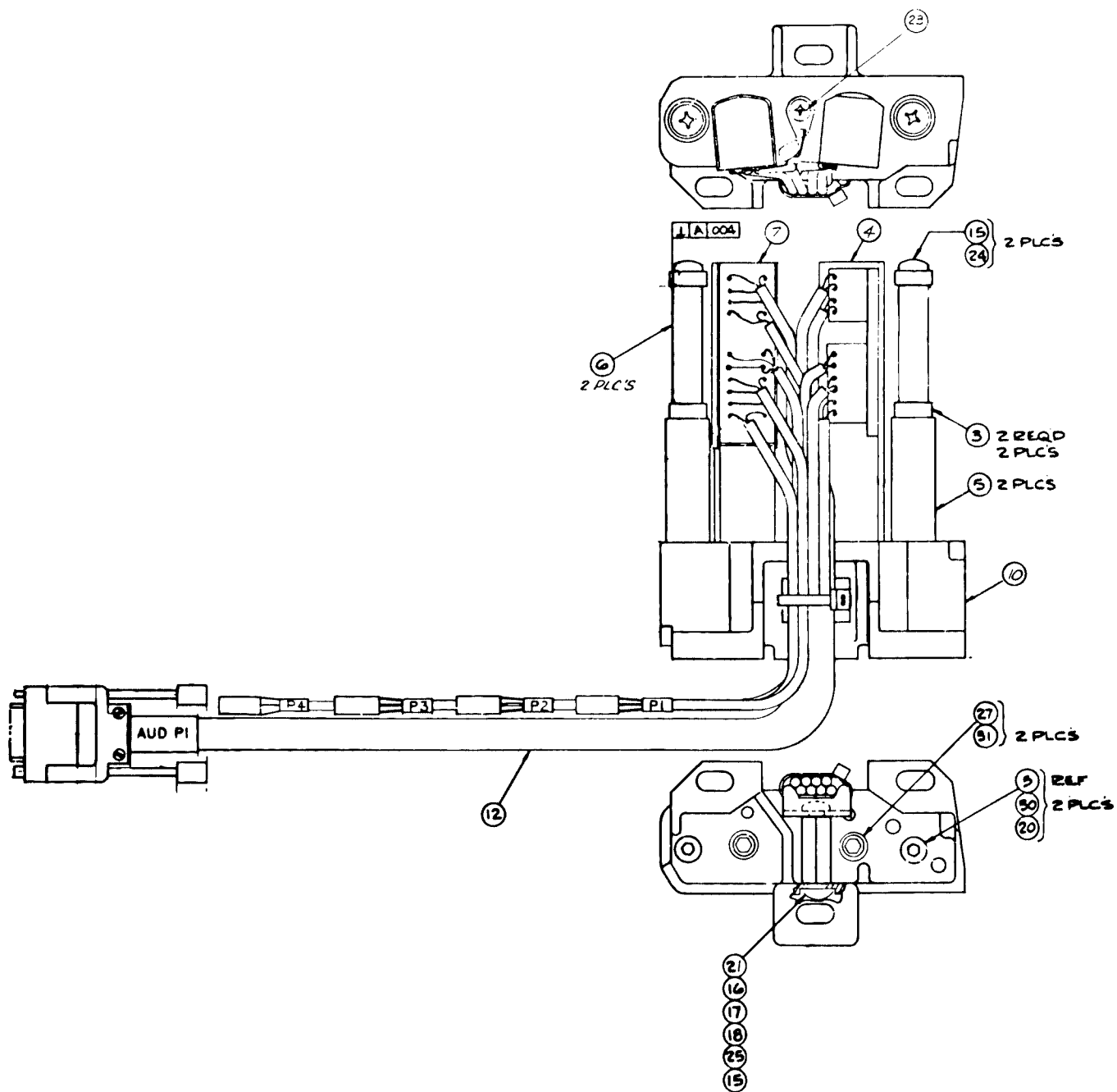
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1451589-02

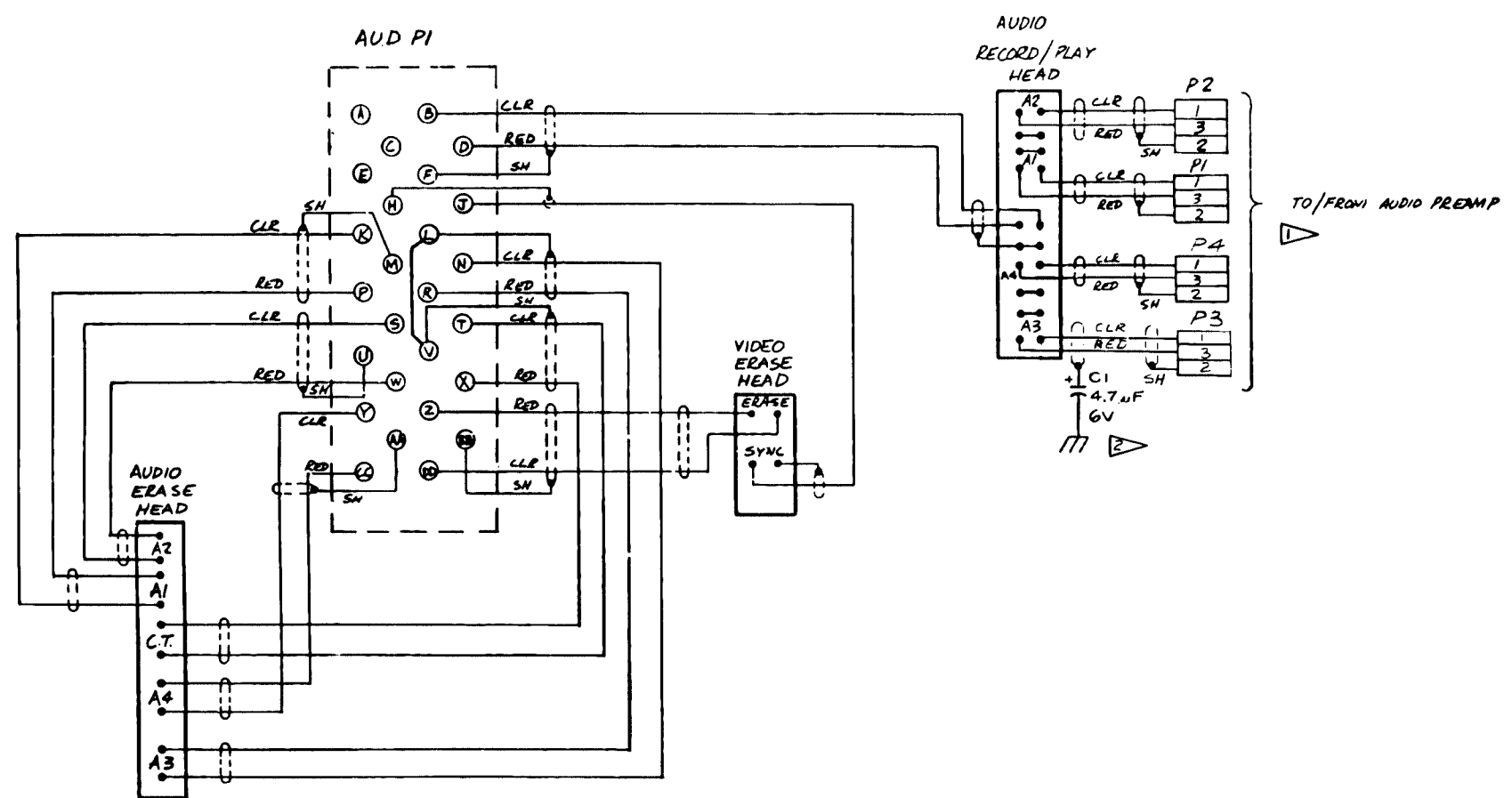
4 CHANNEL AUDIO HEAD ASSEMBLY

REV. C

[illegible]



Assembly No. 1451589-02C. Four Channel Audio Head Assembly



- NOTES:
- 1. P1, P2, P3 AND P4 MUST MATE WITH J1, J2, J3 AND J4 ON 145153-XX SUCH THAT PIN NUMBERS CORRESPOND.
 - 2. CHASSIS GROUND LOCATED BETWEEN AUDIO R/P & ERASE HEAD STACK ASSY.

Wiring Diagram No. 1451590A.
Four Channel Head Assembly

FOUR CHANNEL AUDIO HEAD HARNESS ASSEMBLY
NEXT HIGHER ASSEMBLY 1451578

REV. -

[illegible]

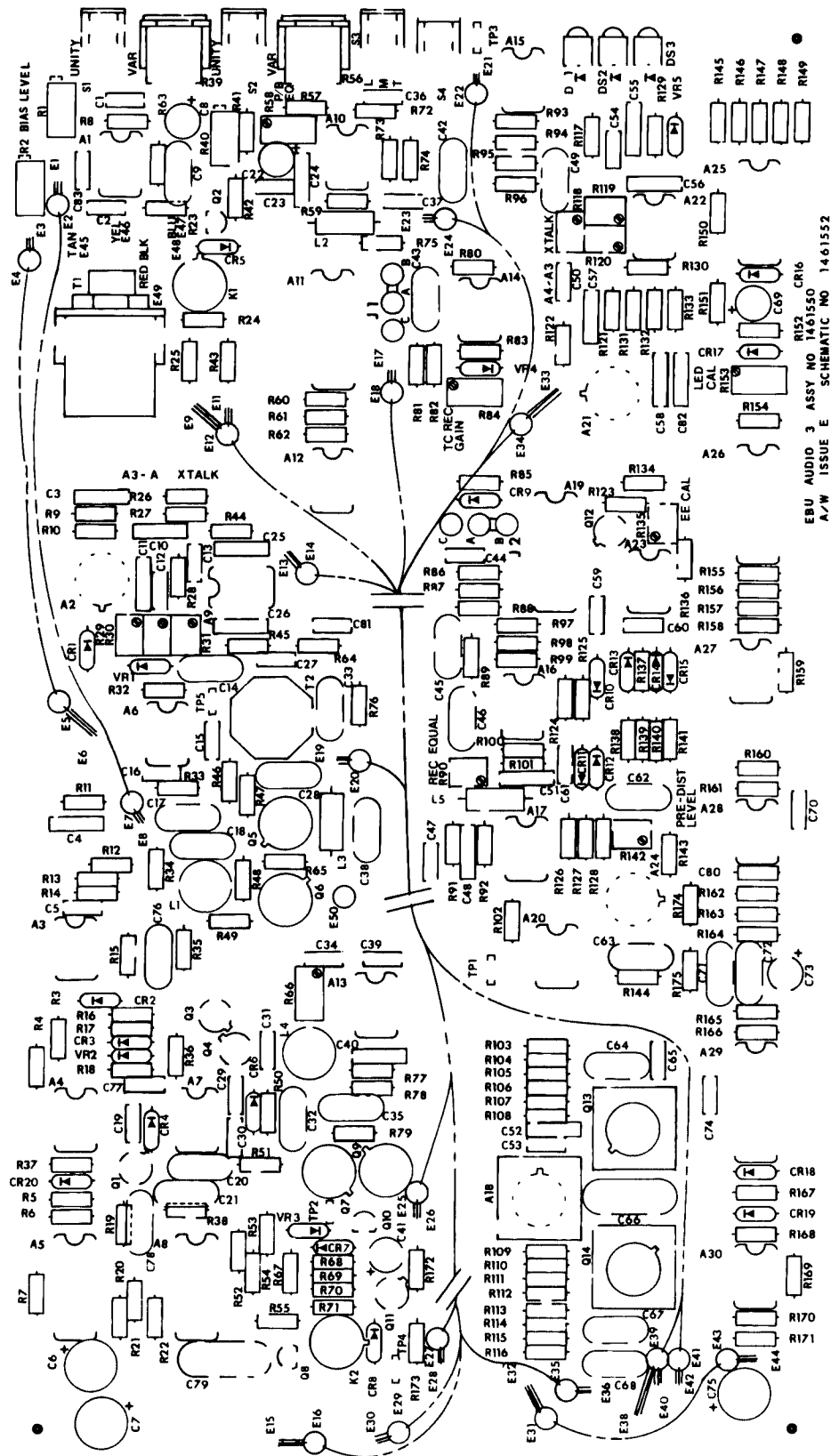
ITEM NO.	PART NUMBER	DESCRIPTION	REF. DESIGN.	QTY REQD PER DASH NUMBER									
				-01	-02								
1													
2													
3	1461552	SCHEMATIC		(-)	(A)								
4													
5													
6	1373323-01	MOUNTING BRACKET, MIC. TRANSFORMER	REF: T1	1	1								
7	1379352-AA	TRANSFORMER, VARIABLE, 6400uH	T2	1	1								
8													
9													
10	1400003-01	SHIELD		1	1								
11	1400004-01	HANDLE		1	1								
12	1400005-AC	LABEL		1	1								
13	1400007-01	BRACKET, POT MTG.	REF: R39,56	2	2								
14	7586021-01	TRANSFORMER, MICROPHONE	T1	1	1								
15													
16													
17	613-021	CABLE, SHIELDED, 1 COND. 26 AWG, WHITE	AR	A/R									
18	616-720	CABLE, TWIN AXIAL	AR	A/R									
19													
20	034-177	CAPACITOR, MICA, 100pF, 500V, $\pm 5\%$	C17	1	1								
21	034-182	↑ 56pF ↑	C45	1	1								
22	034-183	62pF	C42	1	1								
23	034-212	330pF	C43	1	1								
24	034-269	22pF	C62	1	1								
25	034-286	200pF	C33	1	1								
26	034-319	270pF	C20,63,76	2	3								
27	034-268	430pF	C46	1	1								
28	034-935	240pF	C21,78	2	2								
29	034-937	160pF	C14,35	2	2								
30	034-938	110pF	C71,72	2	2								
31	034-940	82pF	C68	1	1								
32	034-941	51pF	C49	1	1								
33	034-215	10pF	C9	1	1								
34	056-292	500pF	C64,67	2	2								
35	056-298	↓ CAPACITOR, MICA, 5000pF, 500V, $\pm 5\%$ ↓	C66	1	1								
36													
37													

AMPEX		Amplex Corporation RE: WOOD CITY CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1461550 SHEET 2	REV B							
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER										
				-01	-02									
38	034-237	CAPACITOR, MICA, 750pF, 300V, $\pm 5\%$	C28	1	1									
39	034-311	CAPACITOR, MICA, 1000pF, 100V, $\pm 1\%$	C38	1	1									
40	034-719	CAPACITOR, MICA, 7500pF, 200V, $\pm 1\%$	C79	1	1									
41	034-950	CAPACITOR, MICA, 1000pF, 100V, $\pm 5\%$	C18,32	2	2									
42														
43	035-730	CAPACITOR, MYLAR, .0047uF, 50V, $\pm 5\%$	C25,40	2	2									
44	035-734	.01uF	C3,26	2	2									
45	035-814	.033uF	C57	1	1									
46	035-828	.022uF	C11,52,82	3	3									
47	035-846	.0082uF	C56	1	1									
48														
49	055-133	.0022uF	C48	1	1									
50	055-135	.0027uF	C10,58	2	2									
51	055-166	.001uF	C51	1	1									
52	055-195	.0068uF	C55	1	1									
53	055-604	CAPACITOR, MYLAR, .0018uF, 50V, $\pm 5\%$	C4,24	2	2									
54														
55														
56														
57	064-062	CAPACITOR, CER., MONO., .1uF, 100V, 20% C1,13,15,16,23,34,36,39,53,59,60,70,74,81,83		15	15									
58	064-307	CAPACITOR, CER., MONO., .22uF, 100V, 20%	C29,77	2	2									
59	064-313	CAPACITOR, CER., MONO., .68uF, 50V, 20%	C27,44,50	3	3									
60	064-314	1uF	C5,19,30,31	4	4									
61	064-315	1.5uF	C12,54	2	2									
62	064-316	2.2uF	C2,37,47,61,65	5	5									
63	064-318	CAPACITOR, CER., MONO., 3.3uF, 50V, 20%	C80	1	1									
64														
65														
66	037-901	CAPACITOR, TANT., DIPPED, 100uF, 20V, $\pm 20\%$	C7,75	2	2									
67	037-908	4.7uF, 35V	C8,22,69	3	3									
68	037-933	10uF, 35V	C73	1	1									
69	037-943	8.2uF, 25V	C41	1	1									
70	037-960	CAPACITOR, TANT., DIPPED, 150uF, 15V, $\pm 20\%$	C6	1	1									
71														
72	143-981	CONNECTOR, SIGNAL CIRCUIT, JACK PC TIP REF: J1.2		6	6									
73														
74	013-358	DIODE, ZENER, IN751, 5.1V	VR2,4	2	2									
75	013-431	ZENER, IN747, 3.6V	VR3	1	1									
76	013-599	CD458	CR1,9	2	2									
77	013-650	CD498	CR14,15,18,19	4	4									
78	013-689	CD6016, IN3600 Select	CR2-8,10-13,16,17,20	14	14									
79	013-703	DIODE, ZENER, 20V, IN 968 B	VR1,5	2	2									
80														
81														

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1461550 SHEET 3	B							
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER										
				-01	-02									
82	581-467	DIODE, LED, AMBER	DS3	1	1									
83	581-468	DIODE, LED, GREEN	DS2	1	1									
84	581-469	DIODE, LED, RED	DS1	1	1									
85														
86	051-165	INDUCTOR, VARIABLE, 3300uH	L4	1	1									
87	051-648	FIXED, 12mH, $\pm 10\%$	L2	1	1									
88	051-744	FIXED, 18mH, $\pm 10\%$	L5	1	1									
89	540-074	FIXED, 1500uH, $\pm 10\%$	L3	1	1									
90	541-067	INDUCTOR, VARIABLE, 1500uH	L1	1	1									
91														
92														
93	590-499	INTEGRATED CIRCUIT, 7416	A5	1	1									
94	587-217	DG2008A	A2,21,24	3	3									
95	590-447	LM324	A25	1	1									
96	589-816	74LS20	A8	1	1									
97	587-670	NE540	A18	1	1									
98														
99	590-454	LF13333N	A11,19,26,29	4	4									
100	590-582	TL071CP	A12,15,20	3	3									
101	590-502	TL072CP	A1,9,10,16,17,22,23,27	8	8									
102	590-503	NE532, LM358	A3,4,7 A6,13,14,28,30	3	3									
103	590-601	INTEGRATED CIRCUIT, LF356		5	5									
104														
105														
106														
107	020-653	RELAY, 12V, 390 OHMS	K1,2	2	2									
108														
109	066-664	RESISTOR, C.F., 510 OHMS, 1/4W, 5%	R109	1	1									
110	066-665	1K	R15,72,82,139,149,169	6	6									
111	066-667	3K	R27	1	1									
112	066-668	4.7K	R3,4,6,7,8,28,36,41,54,91,98,102,150	13	13									
113	066-669	8.2K	R79	1	1									
114	066-673	1MEG	R45,129	2	2									
115	066-675	1.8K	R85,132	2	2									
116	066-676	560K	R81	1	1									
117	066-689	2.2K	R35,37,147	3	3									
118	066-712	22K	R42,55	2	2									
119	066-715	1.2K	R69,117	2	2									
120	066-717	47K	R32,164	2	2									
121	066-718	5.6K	R52,53,75	3	3									
122														
123	066-812	100	RT08,113,172	3	3									
124	066-816	390	R83	1	1									
125	066-818	RESISTOR C.F., 470 OHMS, 1/4W, 5%	R5,46,48,166	4	4									

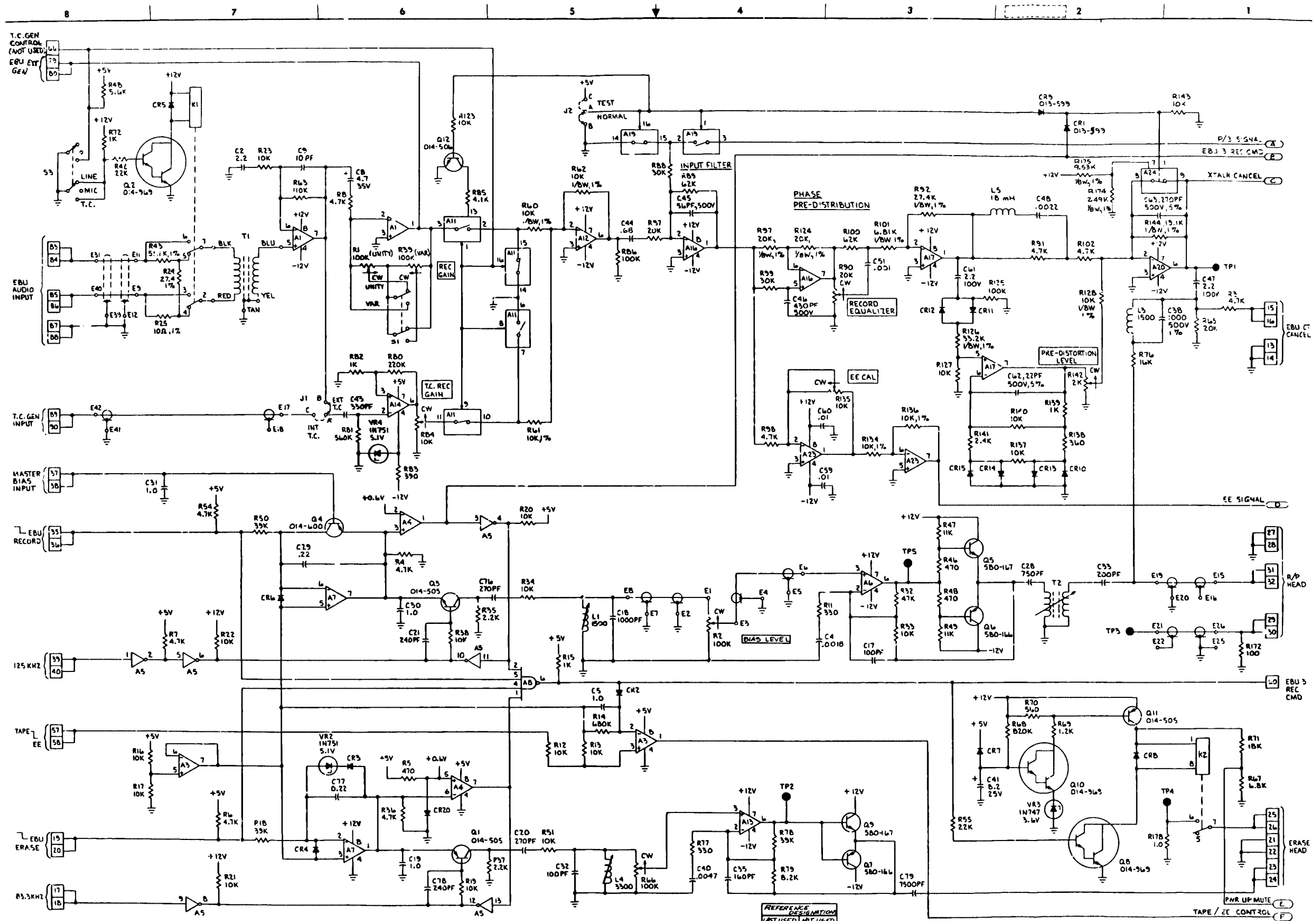
AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE 92739	LIST OF MATERIALS	LM-1461550	Sheet 4		B					
ITEM NO	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
					-01	-02								
126	066-819		RESISTOR, C.F., 620 OHMS, 1/4W, 5%	R146, 148	2	2								
127	066-824	↑	1.5K	R64, 122, 145, 165	4	4								
128	066-829		6.8K	R67, 74, 170	3	3								
129	066-830		10K	R10, 12, 13, 16, 17, 19-23, 33, 34, 38, 51, 60, 61, 62, 103, 123, 127, 131, 134, 136, 137, 140, 143, 154-162, 167	36	36								
130	066-831		11K	R47, 49	2	2								
131	066-832		18K	R71	1	1								
132	066-833		56K	R73	1	1								
133	066-838		330	R11, 77, 110	3	3								
134	066-839		360	R70	1	1								
135	066-842		5.1K	R114, 116	2	2								
136	066-843		6.2K	R133	1	1								
137	066-844		16K	R26, 76	2	2								
138	066-845		24K	R9, 44, 121, 130	4	4								
139	066-846		30K	R88, 99	2	2								
140	066-849		100K	R86, 125, 168	3	3								
141	066-852		62K	R89, 100	2	2								
142	066-860		39K	R18, 50, 78, 104, 115	5	5								
143	066-865		12K	R59	1	1								
144	066-866		27K	R57, 151	2	2								
145	066-872		360	R138	1	1								
146	066-873		20K	R65, 87, 152, 171	4	4								
147	066-887		1	R173	1	1								
148	066-913		220K	R80	1	1								
149	066-928		2.4K	R141	1	1								
150														
151	076-003		56	R105	1	1								
152	076-009		68K	R163	1	1								
153	076-013		680K	R14	1	1								
154	076-022		2.7	R106, 107, 111, 112	4	4								
155	076-047	↓	110K	R63	1	1								
156	076-056		RESISTOR, C.F., 820K OHMS, 1/4W, 5%	R68	1	1								
157														
158														
159	076-335		RESISTOR, M.F., 27.4 OHMS, 1/8W, 1%	R24	1	1								
160	062-693	↑	RESISTOR, M.F., 20K OHMS, 1/8W, 1%	R97, 124	2	2								
161	062-947	↑	2.49K	R174	1	1								
162	062-983		10K	R128	1	1								
163	062-801		10	R25	1	1								
164	066-007		27.4K	R92	1	1								
165	066-009		33.2K	R126	1	1								
166	062-642		6.81K	R101	1	1								
167	066-655	↓	68.1K	R93, 94	2	2								
168	066-015		RESISTOR, M.F., 51.1K OHMS, 1/8W, 1%	R43	1	1								

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		92739	LIST OF MATERIALS	LM-1461550 Sheet 5	REV B								
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				1	2	3	4	5	6	7	8	9	0		
169	066-736	RESISTOR, M.F., 9.53K OHMS, 1/8W, 1%	R175	1	1										
170	066-761	19.1K	R144	1	1										
171															
172	076-344	34.0K	R95	1	1										
173	076-350	RESISTOR, M.F., 97.6K OHMS, 1/8W, 1%	R96	1	1										
174															
175															
176															
177	058-506	RESISTOR, VAR., 1K OHMS, 1/4W	R30,119	2	2										
178	058-540	5K 1/2W, TOP ADJ.	R58	1	1										
179	058-565	10K 1/2W, TOP ADJ.	R84	1	1										
180	058-575	100K 1/2W, TOP ADJ.	R66	1	1										
181	058-731	20K 1/4W	R90	1	1										
182	058-868	100K 1/2W, SIDE ADJ.	R1,2,40	3	3										
183															
184	058-925	10K 1/4W	R135	1	1										
185	058-947	500K 1/2W, TOP ADJ.	R153	1	1										
186															
187	075-118	50K 1/4W	R29,120	2	2										
188	075-204	100K 1/2W, IT LOG	R39,56	2	2										
189	075-327	2K 1/4W	R142	1	1										
190	075-328	RESISTOR, VAR., 1 MEG OHMS, 1/4W	R31,118	2	2										
191															
192															
193															
194	602-044	SHORTING PLUG, RED	REF: J1,2	2	2										
195															
196	119-498	SWITCH, P.C. MOUNTING, TOGGLE, DPDT	S1,2,4	3	3										
197	119-689	SWITCH, P.C. MOUNTING, TOGGLE, DPDT, CENTER OFF	S3	1	1										
198															
199	187-259	TEST LUGS	TP1-5	5	5										
200															
201	014-505	TRANSISTOR, PNP, 2N3251	Q1,3,11	3	3										
202	014-506	NPN, 2N3187	Q12	1	1										
203	014-600	PNP, BIDIRECTIONAL, 2N3922	Q4	1	1										
204	014-969	NPN, DARLINGTON, 2N5325	Q2,8,10	3	3										
205	580-166	PNP, 2N5322	Q6,7,13	3	3										
206	580-167	TRANSISTOR, NPN, 2N5320	Q5,9,14	3	3										
207															
208															
209	014-632	HEAT SINK	REF: Q13,14,A18	3	3										
210	087-388	HEAT SINK COMPOUND		A/R	A/R										
211	230-144	KNOB, POT	REF: R39,56	2	2										
212	280-130	SPACER, TRANSISTOR, TO-18	REF: Q1-4,8,10-12, Q51-3	11	11										
213	280-996	SPACER, TRANSISTOR, TO-5	REF: Q5,6,7,9,13, Q1	6	6										



EBU AUDIO 3 ASSY NO 1461550
A/W ISSUE E SCHEMATIC NO 1461552

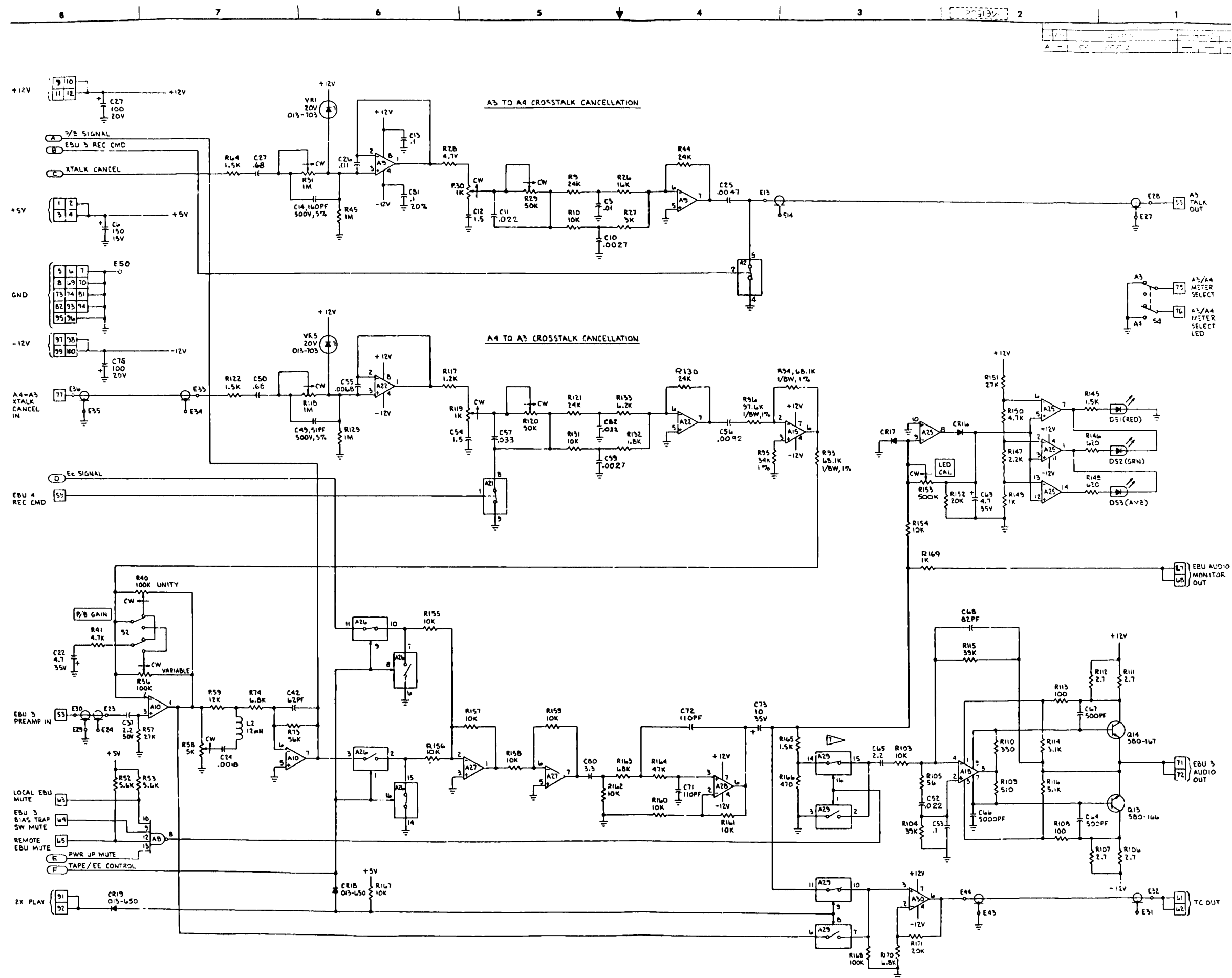
Assembly No. 1461550-02B. EBU Audio PWA, No. 3



NOTES: UNLESS OTHERWISE SPECIFIED
 1. RESISTANCE VALUES ARE IN OHMS, 1/4W 5%.
 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 3. INDUCTANCE VALUES ARE IN MICROHENRYS.
 4. DIODES ARE AMPER P/N 013-685.
 5. SCHEMATIC REFLECTS EBU AUDIO 3, PWA 14W1550-02
 6. STATIC SENSITIVE, SPECIAL HANDLING REQUIRED PER WEI-1.
 7. ALL ANALOG SWITCHES ARE DRAWN IN DE-ENERGIZED ('LOGIC 0') STATE.

I. C. LIST									
REF DESIG	ALIAS	ALIAS	ALIAS	ALIAS	ALIAS	ALIAS	ALIAS	ALIAS	ALIAS
AMPER P/N	550-502	587-217	589-438	586-752	589-441	587-765	589-247	589-428	587-870
VENDOR P/N	TL072	05200	NE552	7416	LF356	741520	LF15333	TL071	NE540
VOLTAGE PIN	+12V (8)	+12V (10)	+12V (10)	+5 (8)	+5V (14)	+5V (14)	+12V (14)	+12V (15)	+12V (15)
GROUND PIN	-	3	-	7	-	7	4	-	11

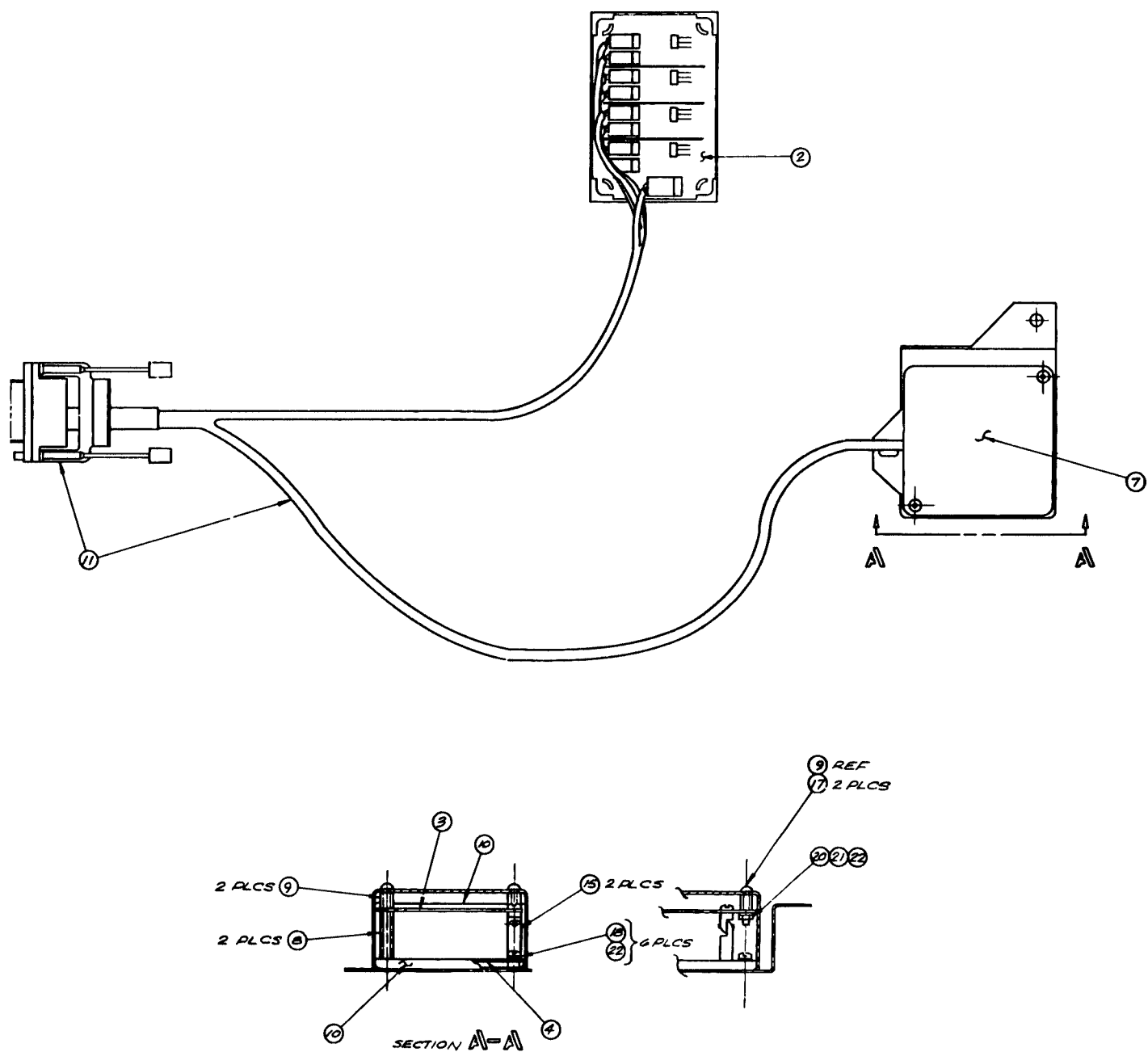
Schematic No. 1461552B.
 EBU Audio PWA, No. 3
 (Sheet 1 of 2)



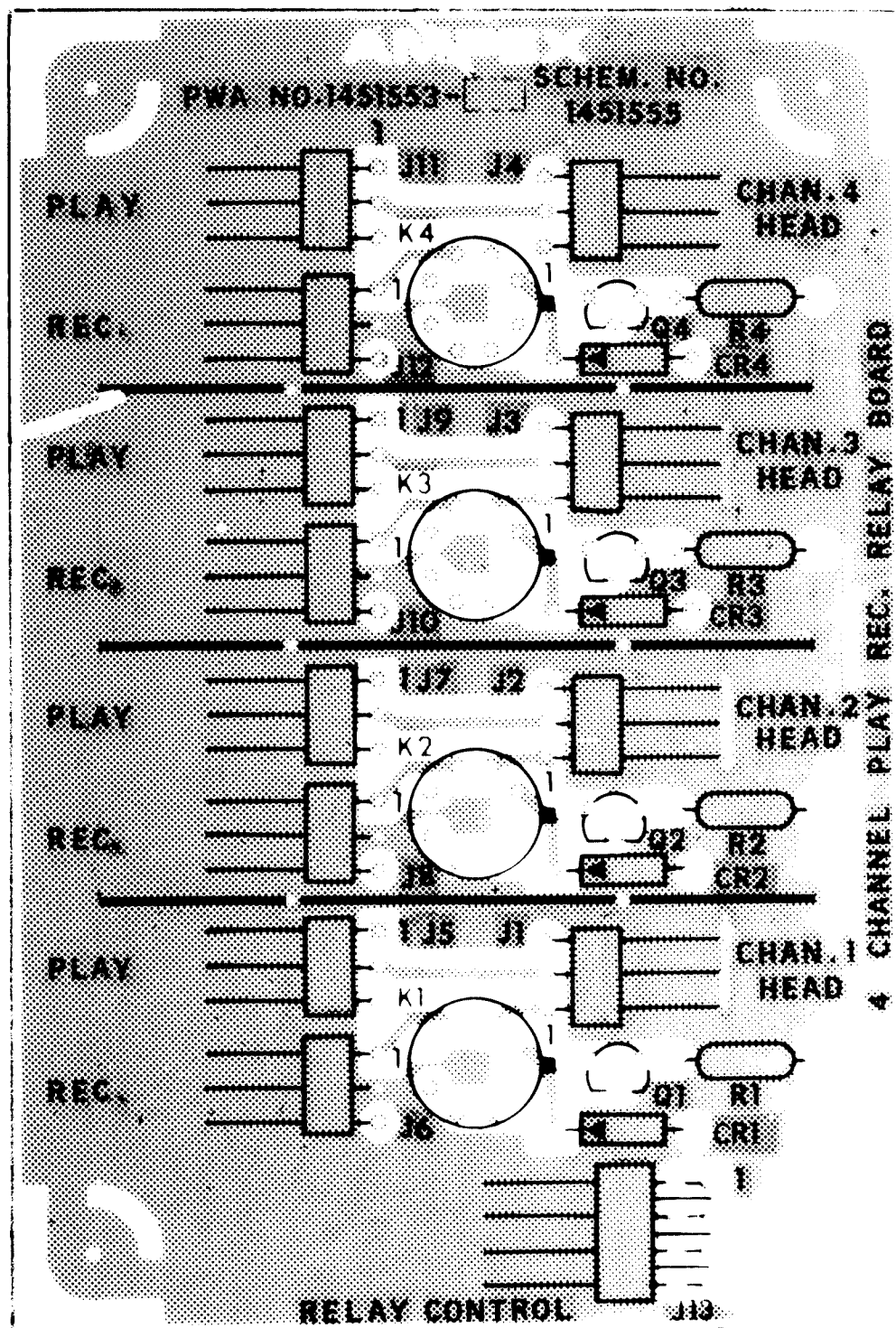
Schematic No. 1461552B.
 EBU Audio PWA, No. 3
 (Sheet 2 of 2)

4 CHANNEL AUDIO HARNESS AND PREAMP

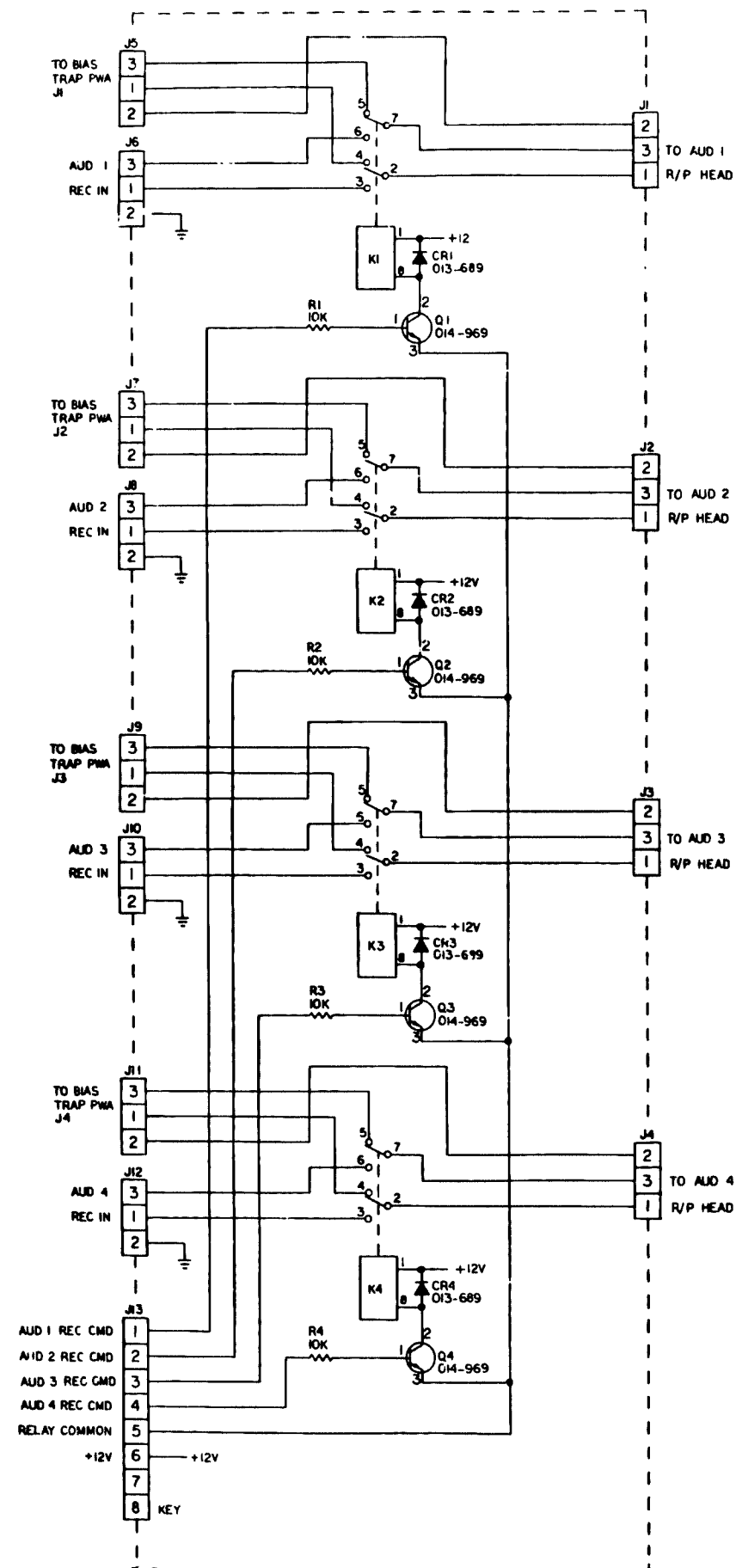
[illegible]



Assembly No. 1451576-01A. Four Channel Audio Harness and Preamp Assembly



Assembly No. 1451553-01—. Four Channel Play/Record Relay PWA



REFERENCE DESIGNATION	
LAST USED	NOT USED
CR1	
K1	
Q1	
R1	

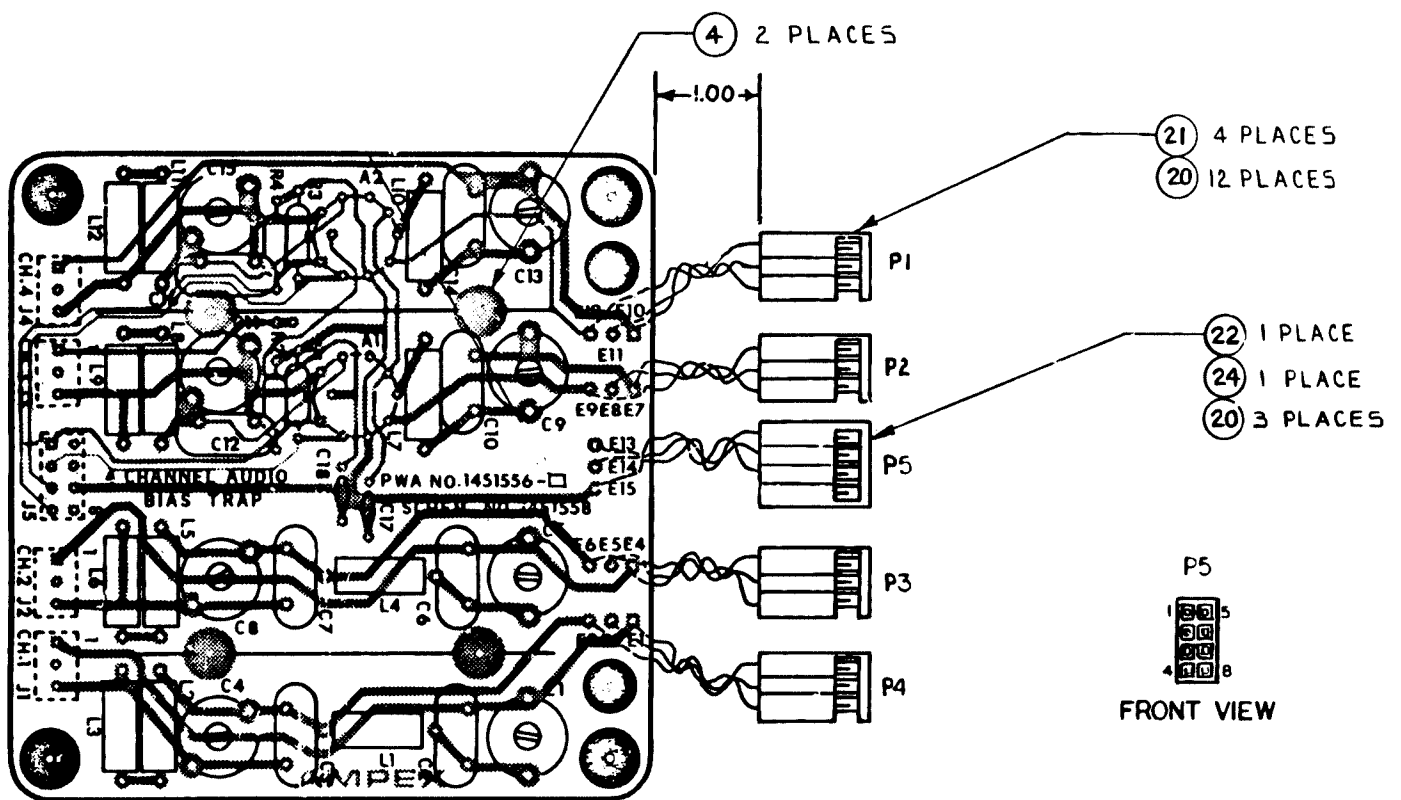
NOTES: UNLESS OTHERWISE SPECIFIED

1. RESISTANCE VALUES ARE IN OHMS, 1/4 W, $\pm 5\%$.

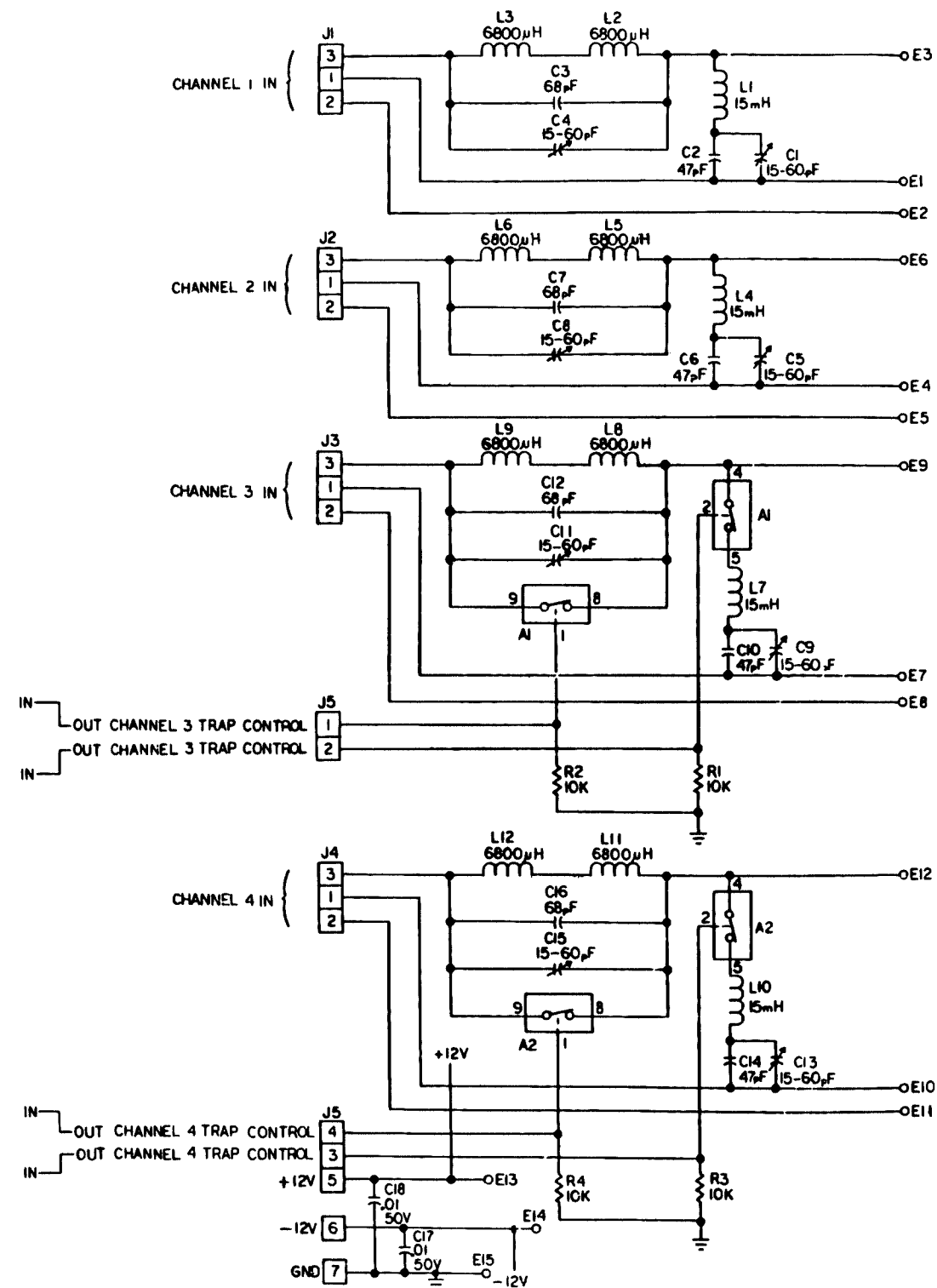
2. SCHEMATIC REFLECTS PWA 1451553-01.

Schematic No. 1451555-
Four Channel Play/Record Relay
Control PWA

[illegible]



Assembly No. 1451556-01—. Four Channel Audio Bias Trap PWA



I. C. LIST	
REF. DES.	A1, A2
AMPEX P/N	580-217
VENDOR P/N	DG200BA
VOLT. (PIN)	+12(10), -12(6)
GROUND	3

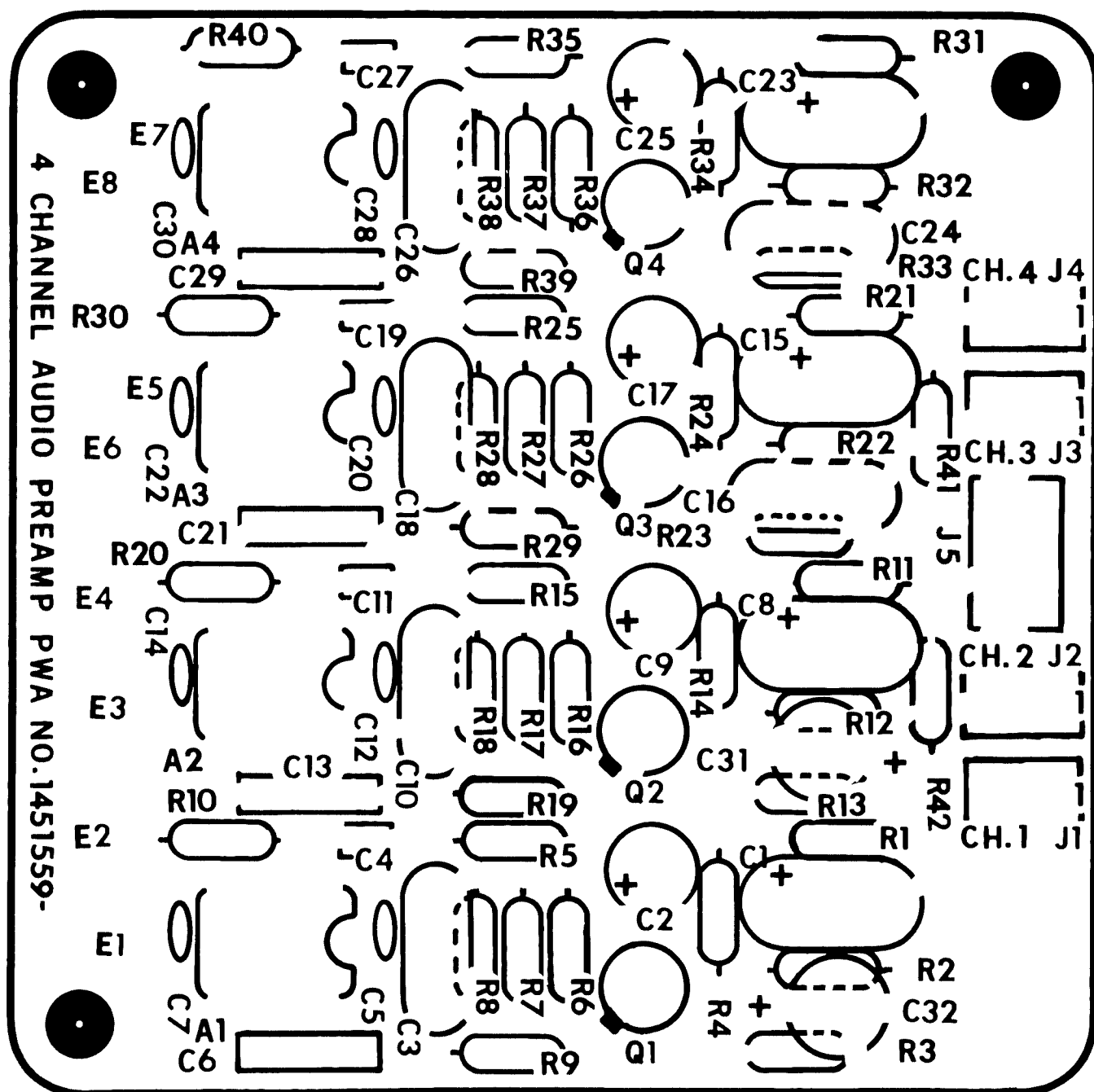
REFERENCE DESIGNATION	
LAST USED	NOT USED
A2	
C18	
L12	
R4	
J5	
E15	

NOTES: UNLESS OTHERWISE SPECIFIED

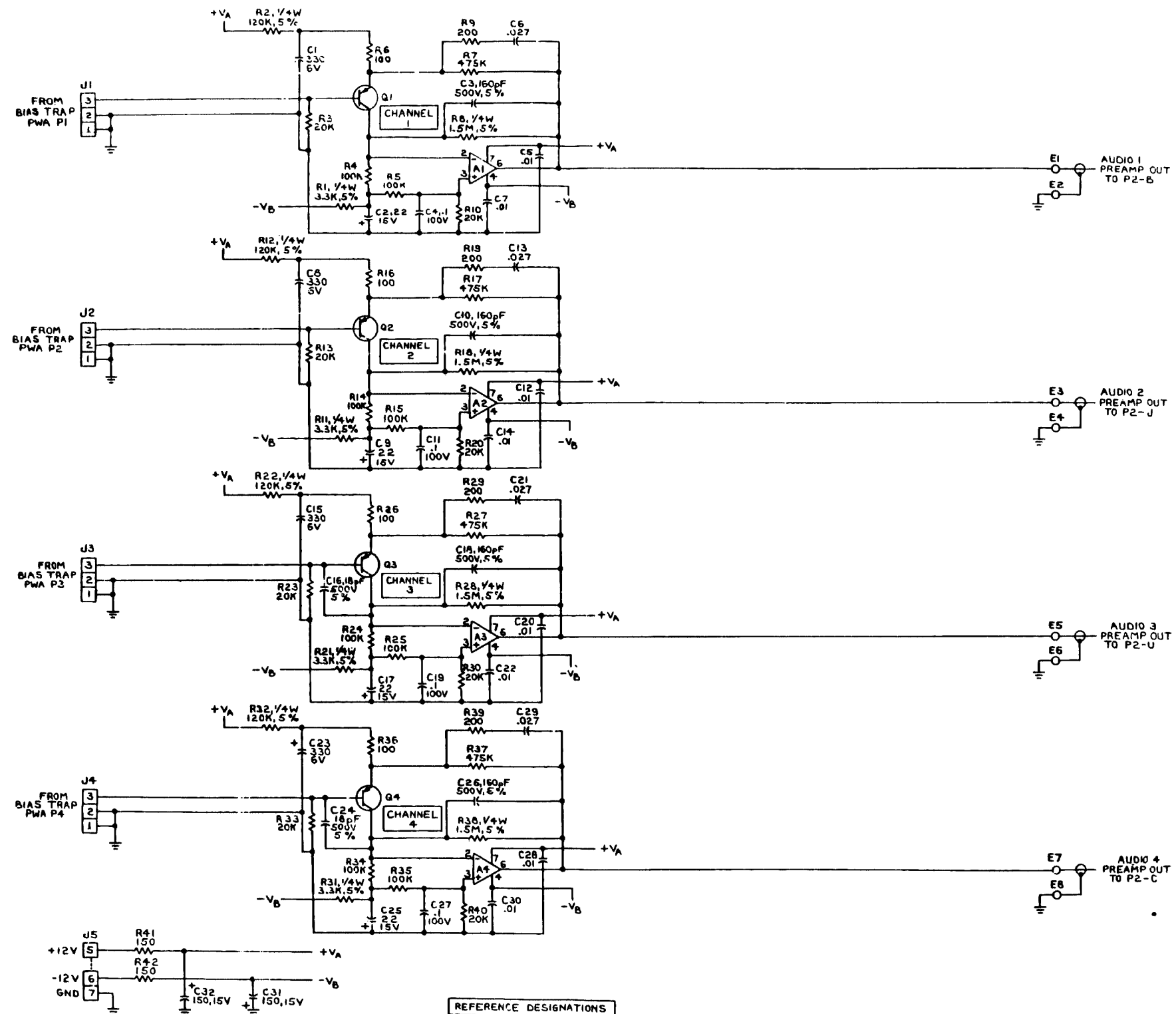
1. RESISTANCE VALUES ARE IN OHMS, $\frac{1}{4}$ W, 5%.
2. CAPACITANCE VALUES ARE IN MICROFARADS, 500V, 1%.
3. SCHEMATIC REFLECTS PWA 1451556-01.
4. ANALOG SWITCHES DRAWN IN DE-ENERGIZED STATE (LOGIC "0").

ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
					-01									
1														
2	1451561		SCHEMATIC	(-)										
3														
4														
5	064-062		CAPACITOR, CER., MONO., .1uF, 100V, ±20%	C4,11,19,27	4									
6	064-116		CAPACITOR, CER., MONO., .01uF, 50V, -20% +80%	C5,7,12,14,20 22,28,30,	8									
7														
8	034-937		CAPACITOR, MICA, 160pF, 500V, 5%	C3,10,18,26	4									
9	034-206		CAPACITOR, MICA, 18pF, 500V, 5%	C16,24	2									
10	035-815		CAPACITOR, MYLAR, .027uF, 50V, ±5%	C6,13,21,29	4									
11														
12	037-954		CAPACITOR, TANT., 22uF, 15V, ±20%	C2,9,17,25	4									
13	037-960		CAPACITOR, TANT, 150uF 15V, ±20%	C31,32	2									
14	037-973		CAPACITOR, TANT., 330uF, 6V, ±20%	C1,8,15,23	4									
15														
16														
17														
18	135-059		HEADER, VERTICAL MOUNT, 8 POS.	REF:J5	1									
19	135-052		HEADER, VERTICAL MOUNT, 3 POS.	REF:J1-4	4									
20														
21	589-441		INTEGRATED CIRCUIT, LF356N	A1-4	4									
22														
23														
24														
25	066-868		RESISTOR, C.F., 120K OHM, 1/4W, 5%	R2,12,22,32	4									
26	076-014		RESISTOR, C.F., 1.5 MEG OHM, 1/4W, 5%	R8,18,28,38	4									
27	066-720		RESISTOR, C.F., 3.3K OHM, 1/4W, 5%	R1,11,21,31	4									
28														
29	062-601		RESISTOR, M.F., 100K OHM, 1/8W, 1%	R4,5,14,15,24 25,34,35,	8									
30	062-693		20.0K OHM, 1/8W, 1%	R3,10,13,20,23 30,33,40	8									
31	062-847		100 OHM, 1/8W, 1%	R6,16,26,36,	4									
32	062-864		150 OHM, 1/8W, 1%	R41,42	2									
33	062-874		200 OHM, 1/8W, 1%	R9,19,29,39	4									
34	066-034		RESISTOR, M.F., 475K OHM, 1/8W, 1%	R7,17,27,37	4									
35														
36	280-130		TRANSISTOR MOUNTING PAD	REF:Q1-4	4									
37	580-849		TRANSISTOR, 2N3964	Q1-4	4									

LM-1451559



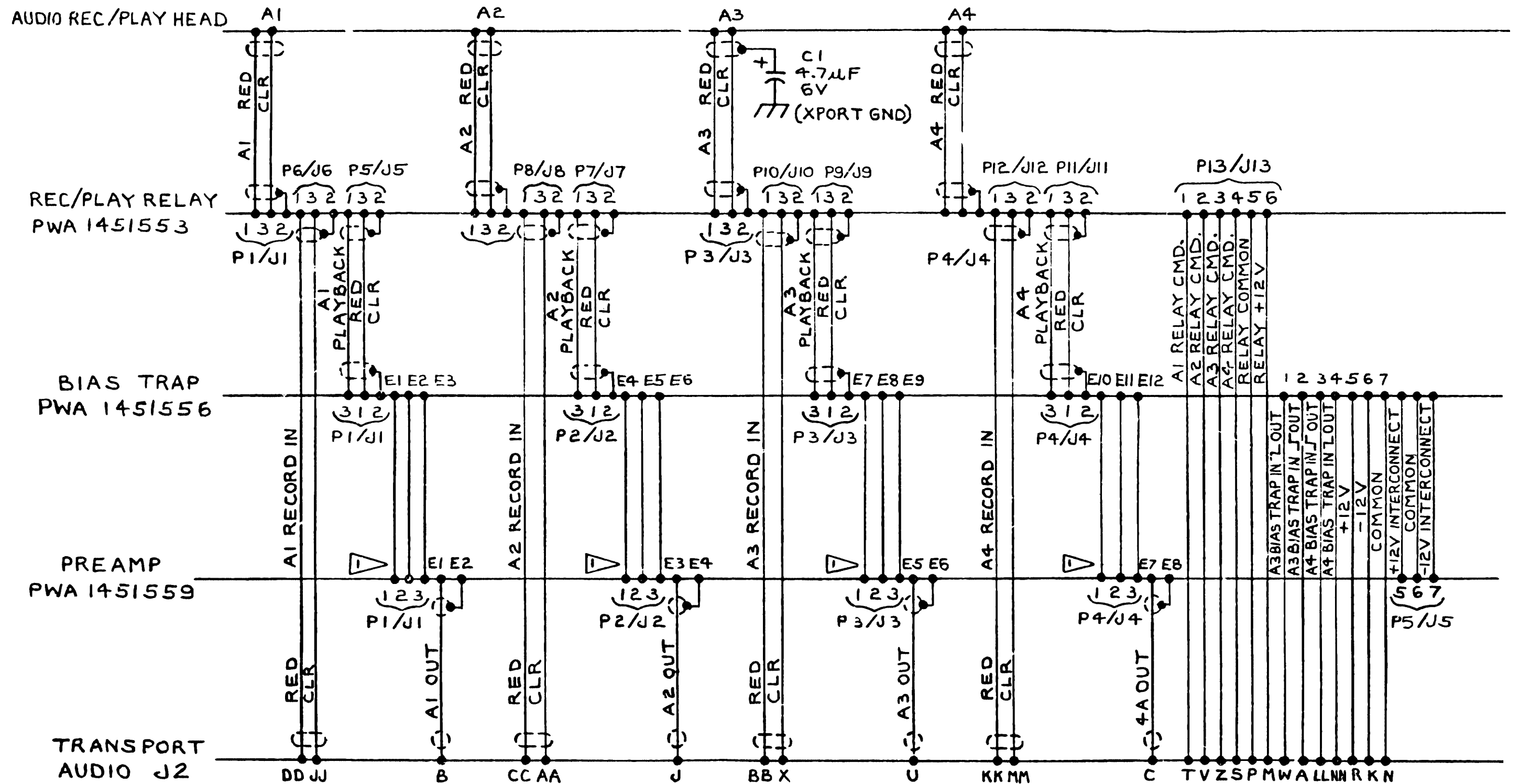
Assembly No. 1451559-01A. Four Channel Audio Preamp PWA



NOTES: UNLESS OTHERWISE SPECIFIED;
 1. CAPACITANCE VALUES ARE IN MICROFARADS, 50V.
 2. RESISTANCE VALUES ARE IN OHMS, 1/8W, 1%.
 3. TRANSISTORS ARE 2N3964.

Schematic No. 1451561—
 Four Channel Audio Preamplifier PWA

ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01											
1	1451552	WIRING DIAGRAM, 4 CHANNEL AUDIO INTERCONNECT	(-)												
2															
3															
4	613-024	CABLE, SHIELDED, 1 COND. 26 AWG WH/RED	AR												
5	613-053	WH/BROWN	AR												
6	613-054	WH/ORANGE	AR												
7	613-055	CABLE, SHIELDED, 1 COND. 26 AWG WH/YELLOW	AR												
8															
9	616-720	CABLE, TWIN AXIAL, SHIELDED	AR												
10															
11															
12	166-857	CONNECTOR PLUG, 34 POS. P2	1												
13	177-092	CONNECTOR, PART, HOUSING, 3 POS.	1												
14	167-611	CONNECTOR, PART, HOUSING, 8 POS.	2												
15															
16															
17	166-226	CONTACT, PIN 24-26 AWG	25												
18	177-094	CONTACT, SOCKET, 22-26 AWG	39												
19	177-141	CONTACT, SOCKET, 22-26 AWG	13												
20															
21	296-004	LACING, CORD	AR												
22															
23	167-445	NYLON INSERT KEY	2												
24															
25	600-090	TUBING, SHRINK, .187 DIA.	AR												
26	600-095	TUBING, SHRINK, .500 DIA	AR												
27															
28															
29	611-487	WIRE, INSULATED, 26 AWG BLACK	AR												
30	617-032	BROWN	AR												
31	617-033	RED	AR												
32	617-034	ORANGE	AR												
33	617-035	YELLOW	AR												
34	617-036	GREEN	AR												
35	617-038	VIOLET	AR												
36	617-043	WH/ORANGE	AR												
37	617-044	WIRE, INSULATED, 26 AWG WH/YELLOW	AR												



NOTES:

1. WIRES TWISTED TOGETHER.

2. THIS DIAGRAM REFLECTS
ASSY 1451576-01.

Wiring Diagram No. 1451552—
Four Channel Interconnect

[illegible]

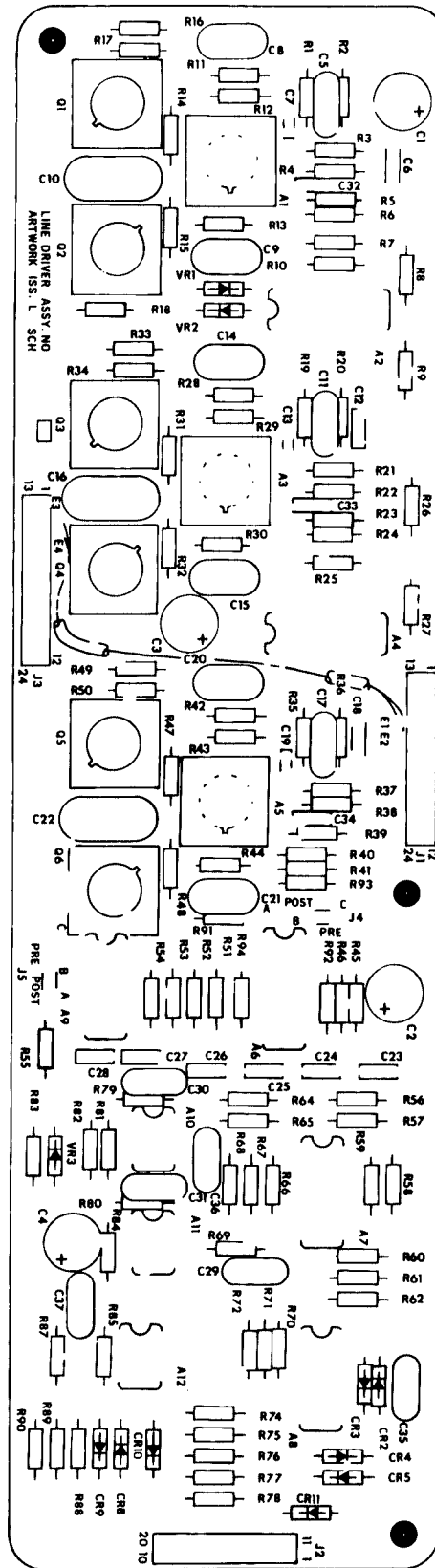
1451591-01

AUDIO LINE DRIVER PWA
NEXT HIGHER ASSEMBLY 1400411

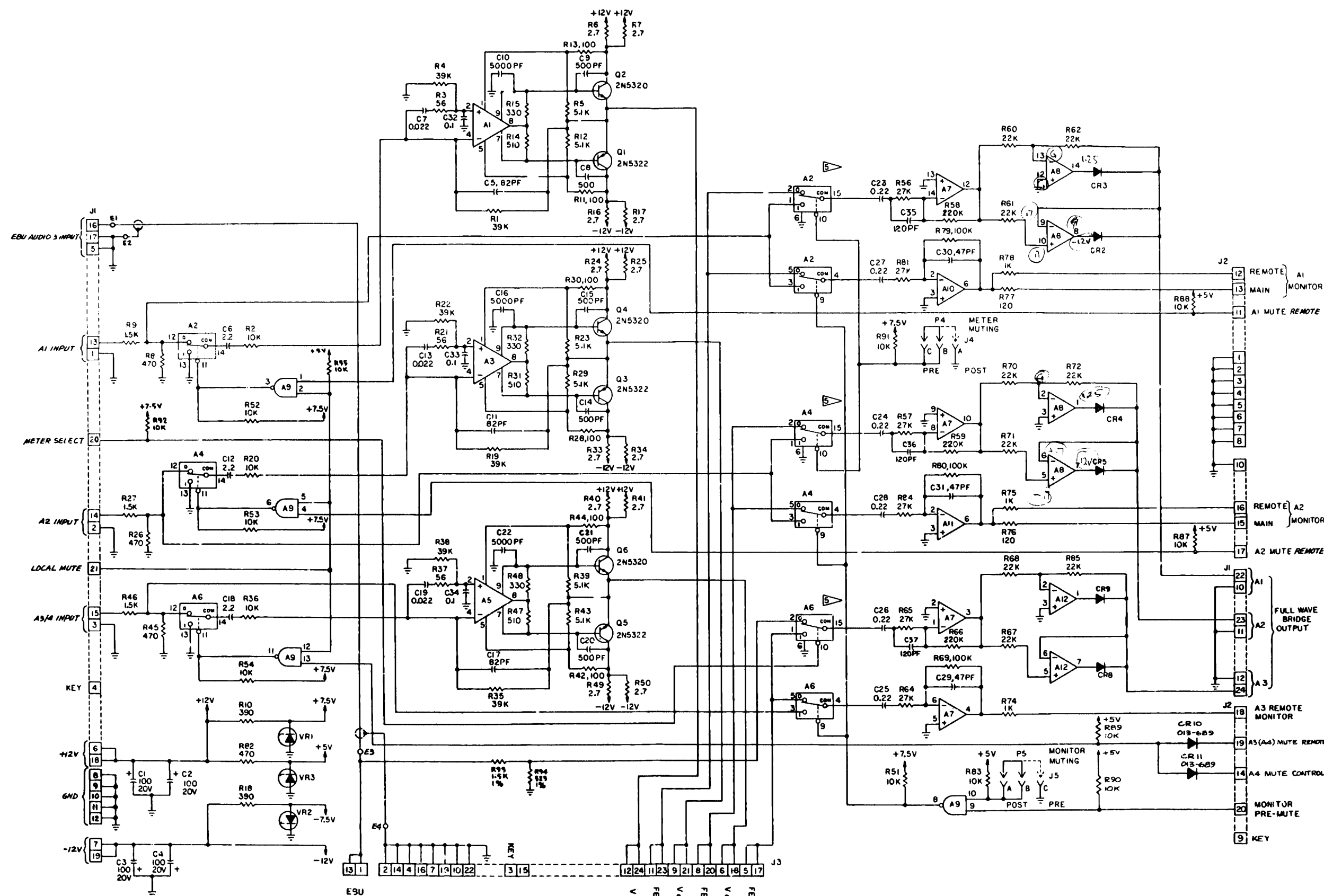
REV. -

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01											
1															
2															
3	1451593	SCHEMATIC		(-)											
4															
5															
6															
7															
8	064-300	CAPACITOR, CER., 0.022uF, 100V	C7,13,19	3											
9	064-307	CAPACITOR, CER., 0.22uF, 100V	C23-28	6											
10	064-316	CAPACITOR, CER., 2.2uF, 50V	C6,12,18	3											
11	064-062	CAPACITOR, CER., .1uF, 100V	C32,33,34	3											
12															
13															
14	034-940	CAPACITOR, MICA, 82pF, 500V	C5,11,17	3											
15	034-181	CAPACITOR, MICA, 47pF, 500V	C29,30,31	3											
16	056-292	CAPACITOR, MICA, 500pF, 500V	C8,9,14,15,20,21	6											
17	056-298	CAPACITOR, MICA, 5000pF, 500V	C10,16,22	3											
18	034-219	CAPACITOR, MICA, 120pF, 500V	C35-37	3											
19															
20	037-901	CAPACITOR, TANT., DIPPED, 100uF, 20V	C1-4	4											
21															
22															
23															
24	013-358	DIODE, ZENER, 5.1V, 1W5S1A	VR3	1											
25	013-312	DIODE, ZENER, 7.5V, 1W5S1A	VR1,2	2											
26	013-689	DIODE, SWITCHING	CR2-5,8,9,10,11	8											
27															
28															
29															
30	135-023	HEADER, 20 PIN	J2	1											
31	135-063	HEADER, 24 PIN	J1,3	2											
32															
33															
34															
35															
36															
37															

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1451591	SHEET 2 OF 4		REV										
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER															
				-01															
38	014-632	HEATSINK	REF:A1,3,5; Q1-6	9															
39	087-388	HEATSINK, COMPOUND		AR															
40																			
41	602-012	JUMPER	J4,5	2															
42	143-981	JUMPER PIN	REF:J4-A,B,C;J5-A,B,C,	6															
43																			
44																			
45	589-427	INTEGRATED CIRCUIT, TL082	A12	1															
46	589-428	↑ ↑ TL084	A9	1															
47	587-870	NE540	A1,3,5,	3															
48	589-481	NE5534	A10,11	2															
49	587-723	CD4053 ▽	A2,4,6	3															
50	587-543	↓ ↓ 7426	A9	1															
51	587-700	INTEGRATED CIRCUIT, RC4136 DB	A7	1															
52																			
53																			
54																			
56	076-022	RESISTOR, C.F., 2.7 OHMS, 1/4W,5%	R6,7,16,17,24,25,33,34,40,41,49,50	12															
57	076-003	↑ ↑ 56 OHMS, 1/4W,5%	R3,21,37	3															
58	066-812	100 OHMS, 1/4W,5%	R11,13,28,30,42,44	6															
59	066-661	120 OHMS, 1/4W,5%	R76,77	2															
60	066-838	330 OHMS, 1/4W,5%	R15,32,48	3															
61	066-816	390 OHMS, 1/4W,5%	R10,18	2															
62	066-818	470 OHMS, 1/4W,5%	R8,25,45,82	4															
63	066-664	510 OHMS, 1/4W,5%	R14,31,47	3															
64	066-824	1.5K OHMS, 1/4W,5%	R9,27,46	3															
65	066-842	5.1K OHMS, 1/4W,5%	R5,12,23,29,39,43	6															
66	066-712	22K OHMS, 1/4W,5%	R60-62,67,68,70-72,95	9															
67	066-866	27K OHMS, 1/4W,5%	R56,57,64,65,81,84	6															
68	066-830	10K OHMS, 1/4W,5%	R2,20,36,51-55,83,97-92	15															
69	066-860	39K OHMS, 1/4W,5%	R1,4,19,22,35,38	6															
70	066-849	100K OHMS, 1/4W,5%	R69,79,80	3															
71	066-913	↓ ↓ 220K OHMS, 1/4W,5%	R58,59,66	3															
72	066-665	RESISTOR, C.F., 1K OHMS, 1/4W,5%	R74,75,78	3															
73																			
74																			
75	062-932	RESISTOR, M.F., 1.5K OHMS, 1/4W,1%	R93	1															
76	066-081	RESISTOR, M.F., 523 OHMS, 1/4W,1%	R94	1															
77																			
78																			
79	580-166	TRANSISTOR, PNP 2N5322	Q1,3,5	3															
80	580-167	TRANSISTOR, NPN 2N5329	Q2,4,6	3															
81	280-180	TRANSISTOR, MOUNTING PAD, TO-5	REF: Q1-Q6	6															
82		NOTES: ▽ STATIC SENSITIVE, SPECIAL HANDLING																	
83																			



Assembly No. 1451591-01—. Audio Line Driver PWA



NOTES: UNLESS OTHERWISE SPECIFIED
 1. RESISTOR VALUES ARE IN OHMS.
 2. CAPACITOR VALUES ARE IN MICROFARADS.
 3. HEATSINKS FOR Q1-Q6, A1, 3 & 5.
 4. USE WITH PWA 1451591-02
 5. STATIC SENSITIVE, SPECIAL HANDLING REQUIRED PER ME-1.

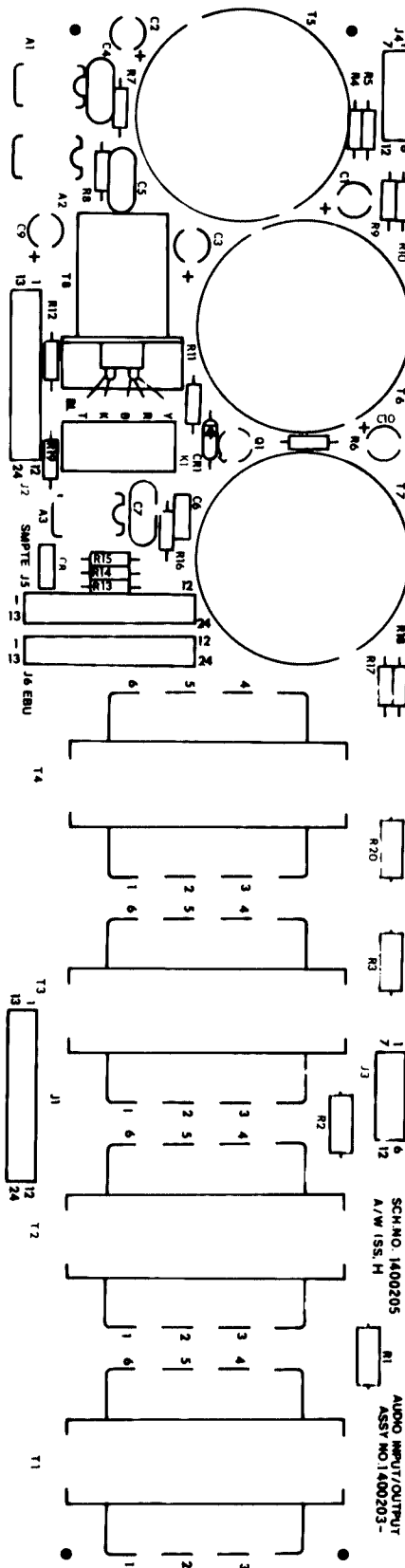
INTEGRATED CIRCUIT LIST						
REF DES	A 2,4,6	A1,3,5	A7	A8	A12	A9
AMPEX P/N	587-723	587-870	587-700	589-428	589-427	587-563
VENDOR P/N	CD4053	NE540	RC4136	TL084	TL082	7426
VOLTAGE	+7.5V(6)	-7.5V(7)	+12V(4)	-12V(7)	+12V(1)	+3V(14)
GROUND	8,6				11	7

REF DES	LAST USED	NOT USED
A12		CR1,6,7
C37		RE3,7,8,9
Q6		
R44		
J6		

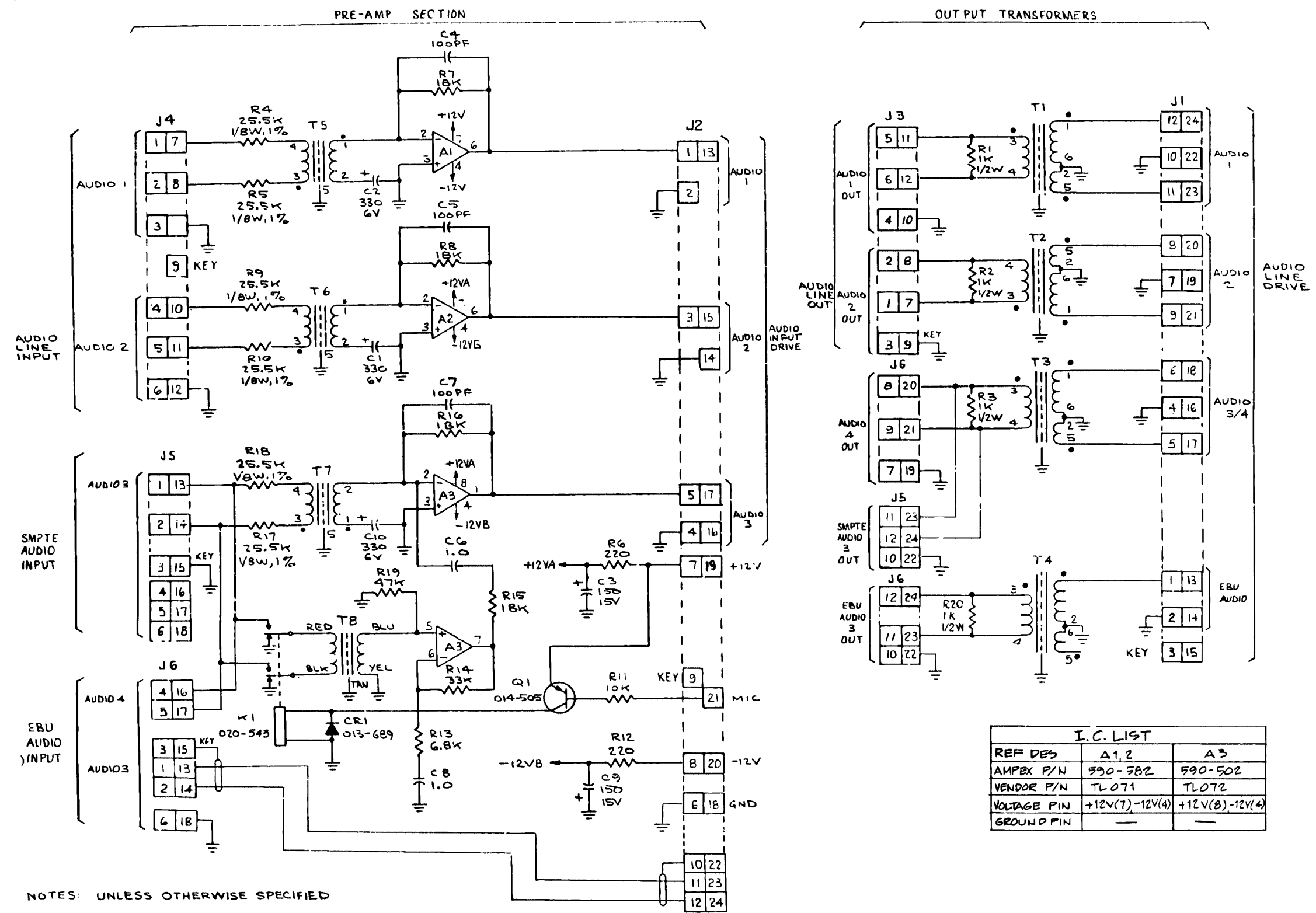
Schematic No. 1451593A.
 Audio Line Driver PWA

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01	-02										
1				-03											
2															
3	1400205	SCHEMATIC		A	D										
4															
5	1373323-01	BRACKET	REF:T8	1	1										
6	4580066-01	TRANSFORMER, INPUT	T5,6,7	3	3										
7	4580067-02	TRANSFORMER, LINE OUTPUT	T1,2,3,4	4	4										
8	7586021-01	TRANSFORMER, MICROPHONE	T8	1	1										
9	4290941-01	COVER, INPUT TRANSFORMER		3	3										
10	4290942-01	CAN, INPUT TRANSFORMER		3	3										
11															
12															
13	064-314	CAPACITOR, CER., 1.0uF, 50V	C6,8	2	2										
14															
15	034-177	CAPACITOR, MICA, 100pF, 500V	C4,5,7	3	3										
16															
17	037-960	CAPACITOR, TANT., DIPPED, 150uF, 15V	C3,9	2	2										
18	037-973	CAPACITOR, TANT., DIPPED, 330uF, 6V	C1,2,10	3	3										
19															
20															
21	013-689	DIODE, SWITCHING	CR1	1	1										
22															
23	135-050	HEADER, 12 PIN	J3,4	2	2										
24	135-063	HEADER, 24 PIN	J1,2,5,6	4	4										
25															
26															
27	590-582	INTEGRATED CIRCUIT, TL071	PRESTRESSED A1,2	2	2										
28	590-502	INTEGRATED CIRCUIT, TL072	PRESTRESSED A3	1	1										
29															
30															
31	020-543	RELAY	K1	1	1										
32															
33															
34	041-245	RESISTOR, COMP., 1K OHMS, 1/2W	R1,2,3,20	4	4										
35															
36															
37															

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400203 SHEET 2	REV P						
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02								
38	066-663	RESISTOR, C.F., 220 OHMS, 1/4W, 5%	R6, 12	2	2								
39	066-829	↑ ↑ 6.8K OHMS, ↑ ↑	R13	1	1								
40	066-830	↑ ↑ 10K OHMS, ↑ ↑	R11	1	1								
41	066-832	↑ ↑ 18K OHMS, ↓ ↓ R7, 8, 15, 16		4	4								
42	066-847	↓ ↓ 33K OHMS, ↓ ↓	R14	1	1								
43	066-717	RESISTOR, C.F., 47K OHMS, 1/4W, 5%	R19	1	1								
44													
45													
46	066-005	RESISTOR, M.F., 25.5K OHMS, 1/8W, 1% R4, 5, 9, 10, 17, 18		6	6								
47													
48													
49	014-505	TRANSISTOR, CD445, 2N3251	Q1	1	1								
50													
51	280-130	MOUNTING PAD, TRANSISTOR	REF: Q1	1	1								
52													
53	020-407	MOUNTING PAD, RELAY	REF: K1	1	1								
54	460-389	RIVET .123 DIA X .156 LG	REF: ITEM 4		2								
55	460-039	RIVET, .125 DIAMETER X .187 LG.	REF: ITEM 4	2	-								



Assembly No. 1400203-02P. Audio Input/Output PWA



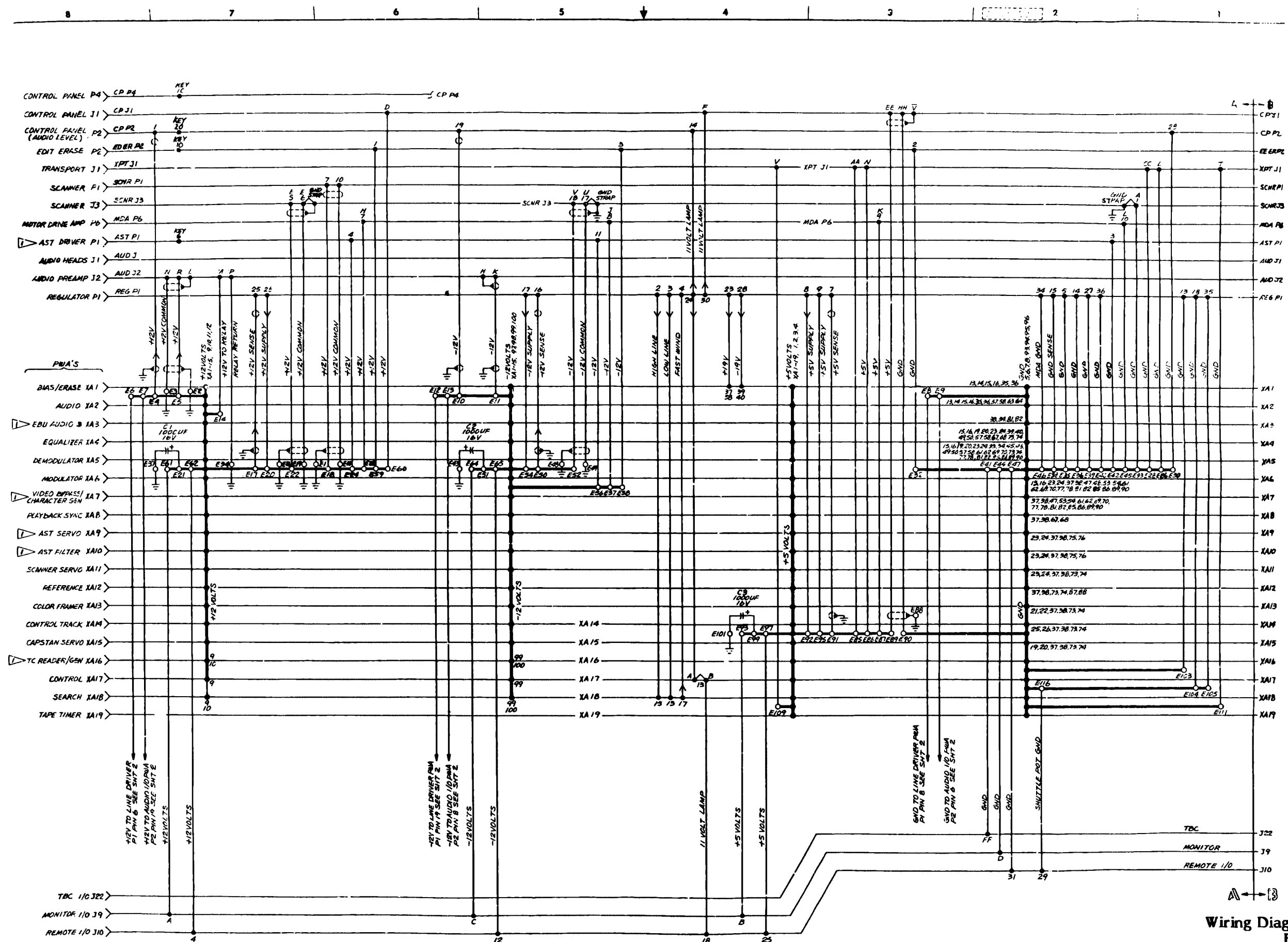
- NOTES: UNLESS OTHERWISE SPECIFIED
1. RESISTANCE VALUES ARE IN OHMS, 1/4 W, 5%.
 2. CAPACITANCE VALUES ARE IN MICROFARADS, 50V.
 3. THIS SCHEMATIC REFLECTS PWA 1400203 -02.

I.C. LIST		
REF DES	A1, 2	A3
AMPBX P/N	590-582	590-502
VENDOR P/N	TL071	TL072
VOLTAGE PIN	+12V(7), -12V(4)	+12V(8), -12V(4)
GROUND PIN		

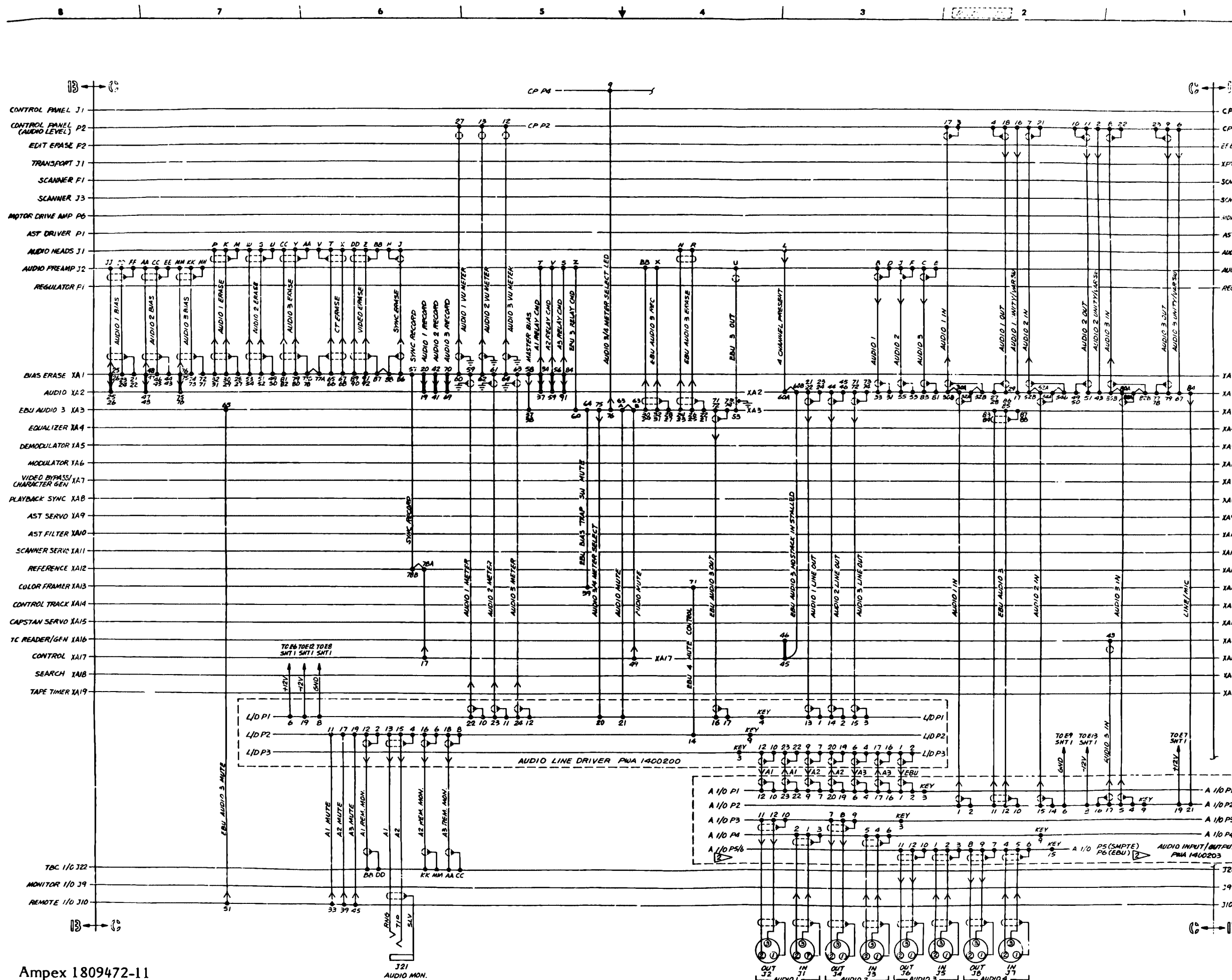
REFERENCE DESIG		FIELD SERVICE COMPONENT	
LAST USED	NOT USED	SUBSTITUTION LIST	
C10		AMPBX P/N	COMM. EQUIV.
C11		013-689	
J6		014-505	2N2251
K1			
Q1			
R20			
T8			
A3			

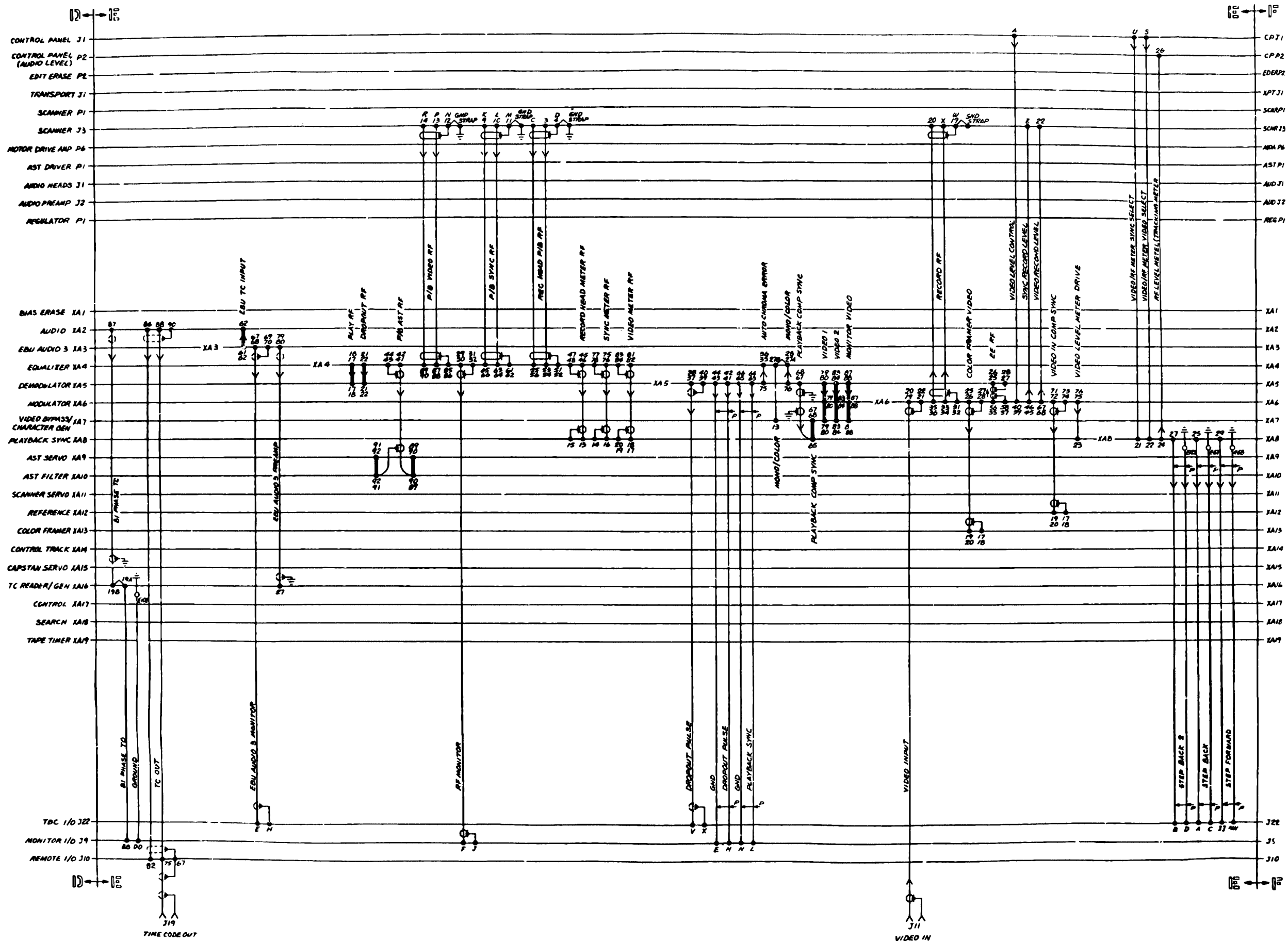
Schematic No. 1400205D.
Audio Input/Output PWA

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-1	-2	-3	-14	05	06	07	08	09	10
1				-10	-11	-12		05	07	07	07	-09	-10
2	1400427-01	HARNESS, MOTHERBOARD, UPPER											
3	1400428-01	HARNESS, MOTHERBOARD, LOWER											
4	1400424	WIRING DIAGRAM											
5	1400412-02	PANEL, REAR CONNECTORS											
6	1400413-01	SUPPORT, PWA AND CONNECTOR PANEL											
7	280-561	SPACER, THREADED, PLAIN, 6-32 X .250 AF, 1.00 LG, ALUM											
8	472-954	SCREW, CAP, BUT HD, HEX SOC DR, 6-32 X .375 LG, BLK OXIDE											
9	501-775	WASHER, LOCK, HELICAL SPRING, #6, CS, BLACK OXIDE											
10	063-247	CAPACITOR, ALUM, 1000 uF, 16V	C1,2,3										
11	501-777	WASHER, PLAIN, .143 I.D., .267 O.D., .016 THK, CS, BLK OXD											
12	310-916	LATCH PART, PUSH BUTTON, GROMMET, NYLON, BLACK											
13	139-688	CONNECTOR, PC 100 POS DUAL	XA1-19										
14	310-919	LATCH PART, PUSH BUTTON, PLUNGER, NYLON, BLACK											
15	139-918	CONNECTOR, RECPT, RF	J11-19										
16	146-998	CONNECTOR, RECPT, AUDIO, 3 SOC	J1,3,5,7										
17	147-999	CONNECTOR, RECPT, AUDIO, 3 PIN	J2,4,6,8										
18	167-586	CONNECTOR, PLUG (HOUSING) 12 POS	A 1/O P3,P4										
19	167-614	CONNECTOR, PLUG (HOUSING) 24 POS	A 1/O P5-6										
20	167-444	CONTACT, SOCKET, SPRING PUSH ON											
21	167-445	PLUG, KEYING, NYLON	REF: A 1/O P3-3,P4-9, P5/6-15										
22	502-437	WASHER, SHOULDER, NYLON	REF: J21										
23	506-027	WASHER, "D"	REF: ITEM 36										
24	615-046	WIRE, SOLID, INSUL., 24 AWG											
25	616-720	CABLE, TWIN AXIAL, 125 OHMS, 26 AWG											
26	187-387	TERMINAL, QUICK DISCONNECT	REF: J11-19										
27	260-062	CATAPILLER, 1/8"											
28	470-017	SCREW, CAP HEX SOC 6-32 X .312											
29	501-009	WASHER, FLAT											
30	471-069	SCREW, PAN HD, 6-32 X 3/8" LG											
31	473-325	SEM SCREW, PAN HD, 4-40 X 5/16" LG											
32	501-008	WASHER, FLAT, SMALL PATTERN											
33	471-328	SCREW, FLAT HD, 4-40 X 3/8" LG											
34	496-004	NUT, KEP - NO. 4											
35	470-010	SCREW, SOCKET HD, 4-40 X 3/8" LG											
36	302-078	CLAMP, CABLE											
37		SLEEVING, SHRINK											

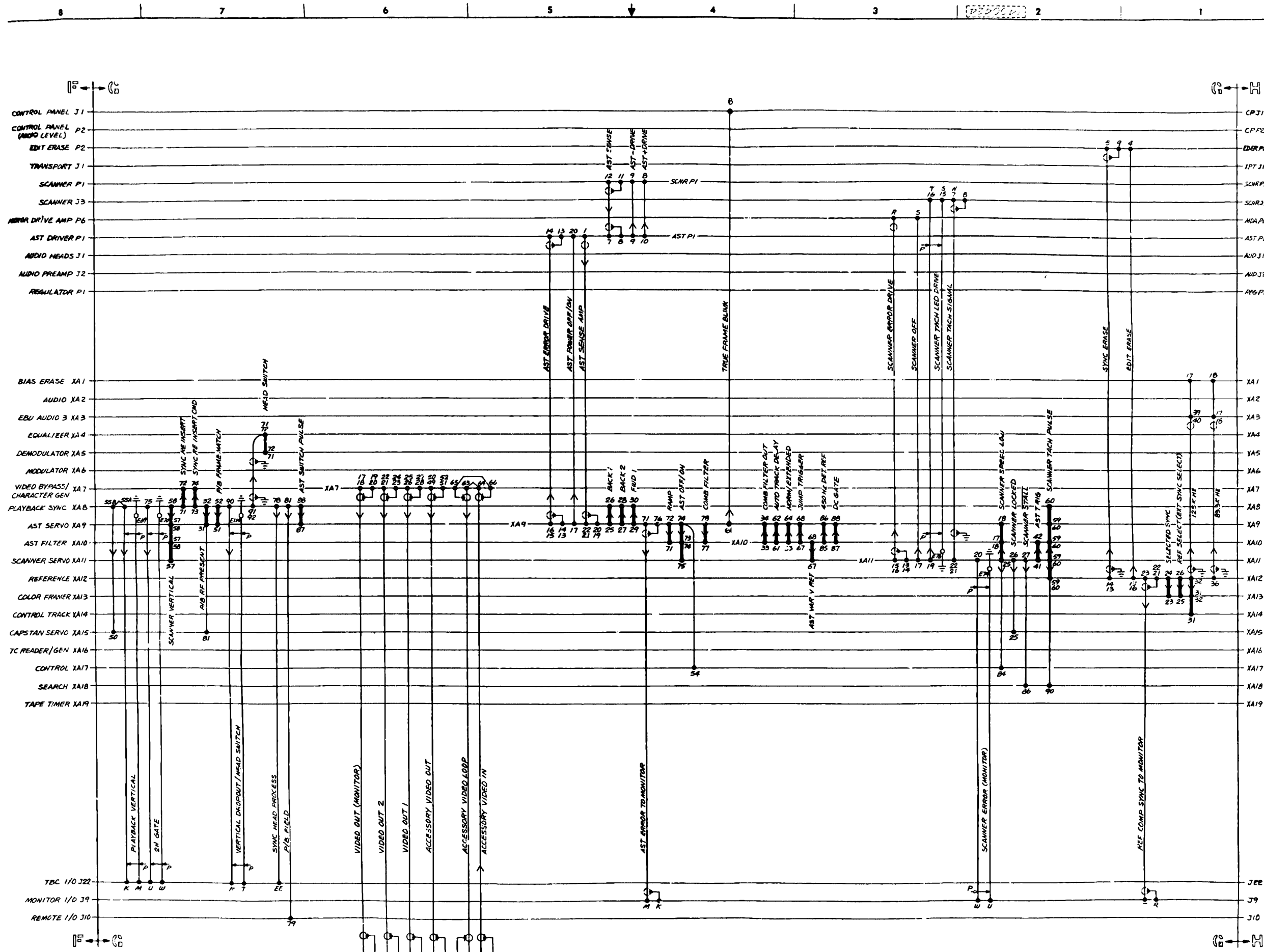


Wiring Diagram No. 1400424U.
Electronics Chassis
(Sheet 1 of 8)

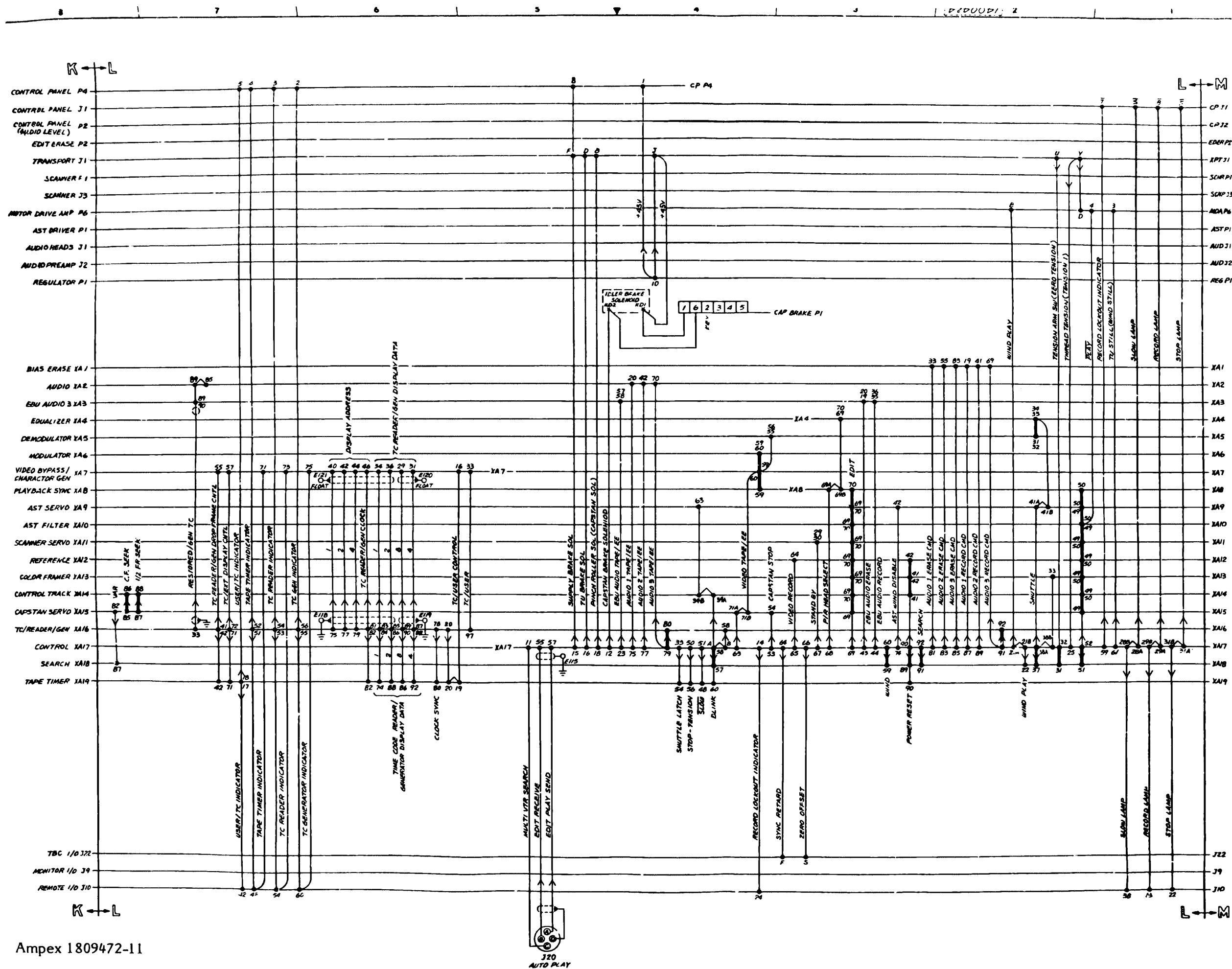


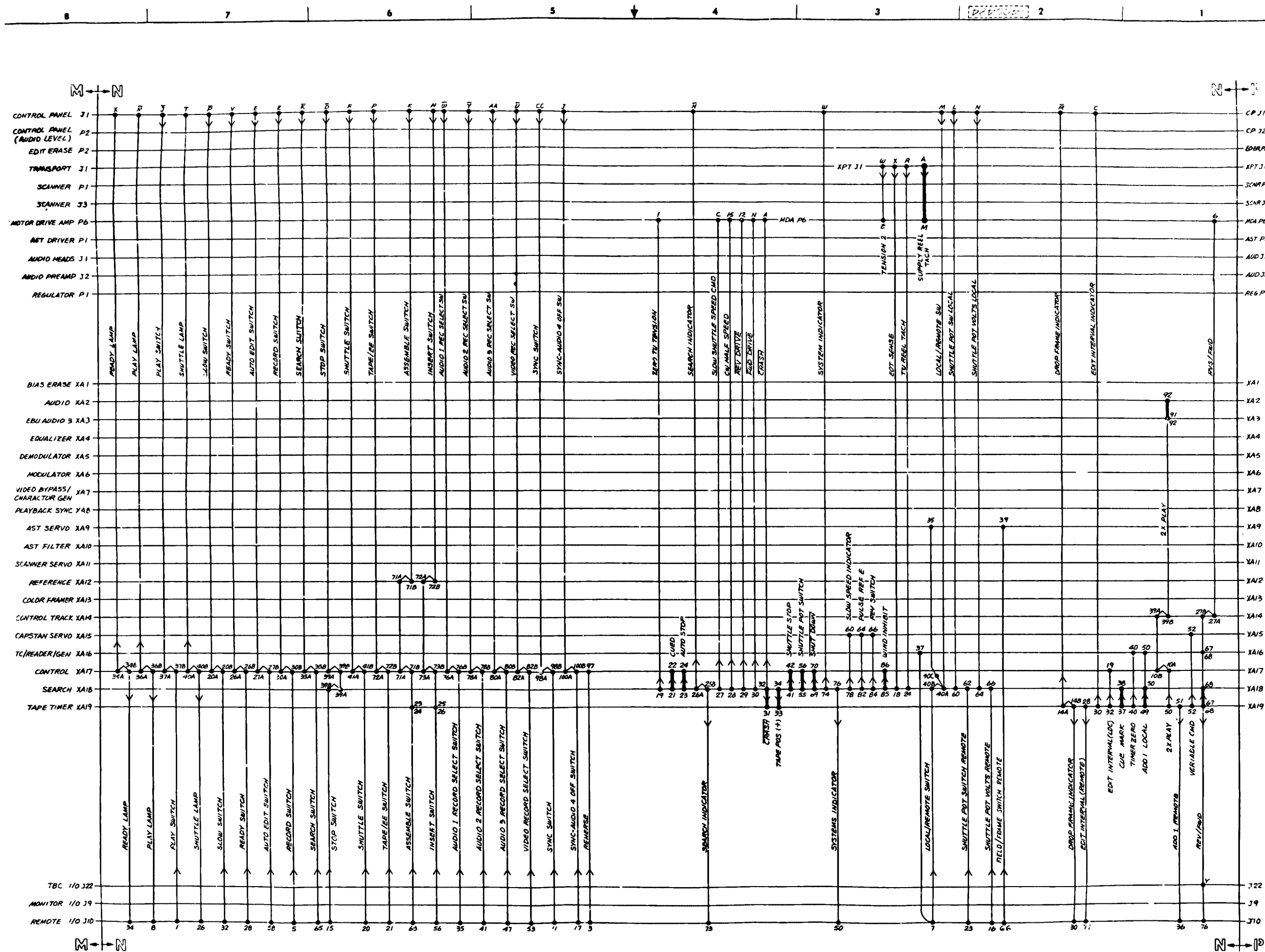


Wiring Diagram No. 1400424U.
Electronics Chassis
(Sheet 3 of 8)

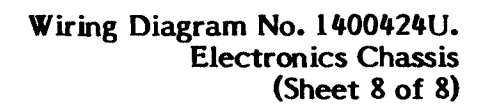


Wiring Diagram No. 1400424U.
Electronics Chassis
(Sheet 4 of 8)





Wiring Diagram No. 1400424U.
Electronics Chassis
(Sheet 7 of 8)

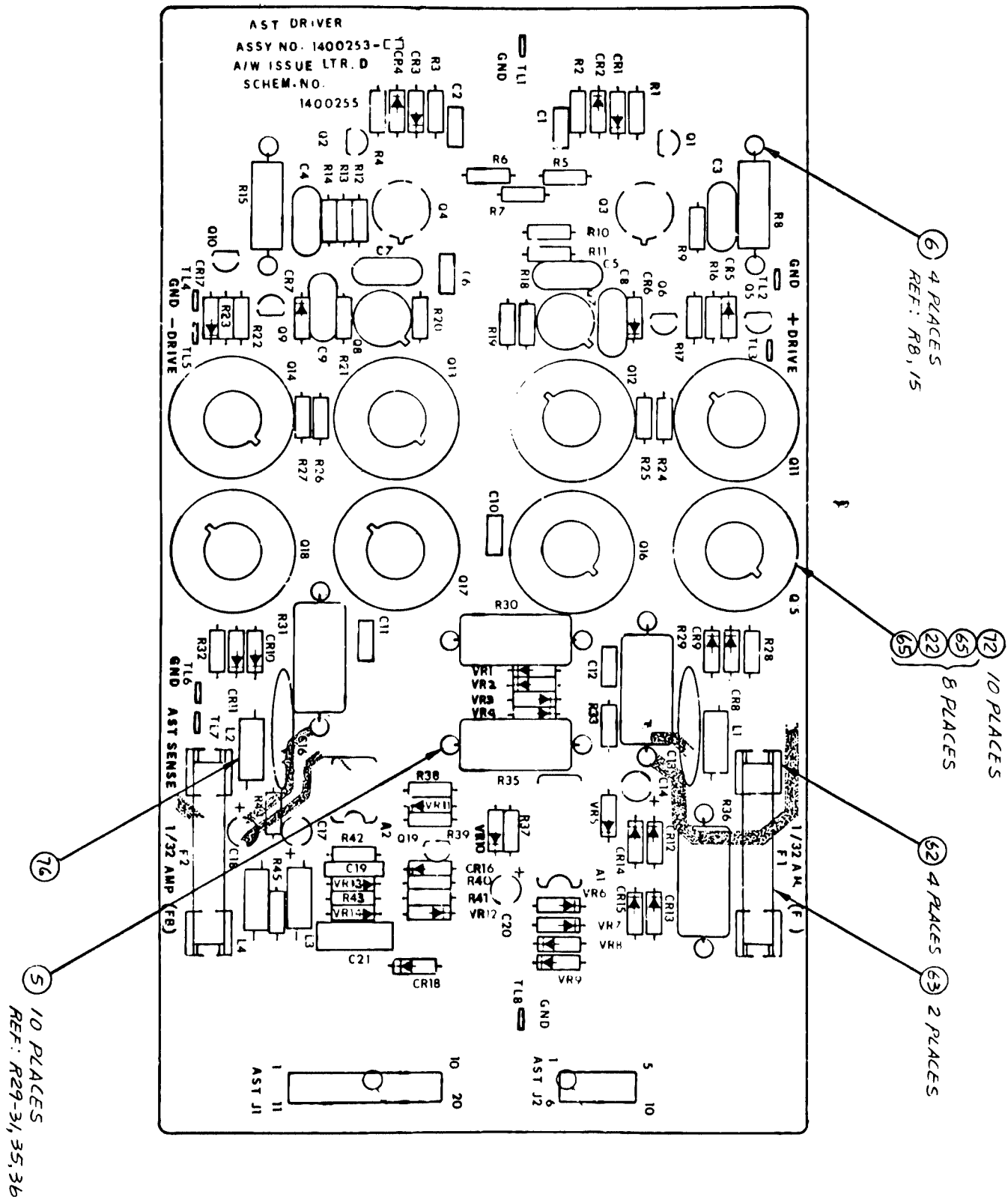


ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-11	-02	-03	-04	-05	-06	-07	-08	-09	-10
1	1360027-01	GROUNDING BRACKET	REF: SCNR J3	1	1	1	1	1	1	1	1	1	1
2	143-120	CONNECTOR, RECPT, 26 POS	AUD J1, XPT J1	2	2	2	2	2	2	2	2	2	2
3	143-534	CONNECTOR, PC, DUAL, 15 POS	MDA P6	1	1	1	1	1	1	1	1	1	1
4	169-719	CONNECTOR, RECPT, 34 POS	AUD J2	1	1	1	1	1	1	1	1	1	1
5	166-199	CONTACT, SOC, 20-22 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
6	166-200	CONTACT, PIN, 20-22 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
7	166-224	CONTACT, SOC, 24-26 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
8	166-225	CONTACT, SOC, 16-18 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
9	166-226	CONTACT, PIN, 24-26 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
10	166-227	CONTACT, PIN, 16-18 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
11	167-024	CONNECTOR, PLUG, RECT, 12 POS.	SCNR P1	1	1	1	1	1	1	1	1	1	1
12	167-028	CONNECTOR, PLUG, RECT, 36 POS.	REG P1	1	1	1	1	1	1	1	1	1	1
13	167-443	CONNECTOR, PLUG, RECT, 20 POS.	AST P1	1	1	1	1	1	1	1	1	1	1
14	167-444	CONTACT, SOC, SPRING, PUSH ON		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
15	167-446	CONNECTOR, PLUG, RECT, 28 POS.	CP P2	1	1	1	1	1	1	1	1	1	1
16	167-450	CONNECTOR, PLUG, 3 POS.	CAP P1	1	1	1	1	1	1	1	1	1	1
17	168-140	CONNECTOR, PC DUAL, 22 POS.	SCNR J3	1	1	1	1	1	1	1	1	1	1
18	169-613	CONNECTOR, RECPT, 50 POS.	CP J1	1	1	1	1	1	1	1	1	1	1
19	1400429-02	BRACKET, CONNECTOR REC DRIVER	REF: SCNR J3	1	1	1	1	1	1	1	1	1	1
20	1378801-01	BRACKET, CONNECTOR MTG	REF: SCNR J3	1	1	1	1	1	1	1	1	1	1
21	302-335	STRAP, CABLE		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
22	302-379	STRAP, CABLE		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
23	1379244-01	BRACKET, CONNECTOR REC DRIVER	REF: SCNR J3	1	1	1	1	1	1	1	1	1	1
24		CABLE, SHIELDED, 1 COND 24 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
25		WIRE, STRANDED, 24 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
26		↑ 20 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
27		↓ 18 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
28		WIRE STRANDED, 16 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
29	615-004	WIRE, SOLID, BARF 24 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
30	616-569	CABLE, MINI, COAX, 75 OHMS		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
31	616-720	CABLE, TWIN AXIAL, 125 OHMS, 26 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
32	636-028	CABLE, SHIELDED, 2 COND, 24 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
33	616-591	CABLE, SHIELDED, 6 COND, 24 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
34		SLEEVING, SHRINK		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
35	616-283	CABLE, SHIELDED, 2 COND, 22 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
36	167-575	CONNECTOR, PLUG, RECT, 10 POS.	CPA, EDER P2	2	2	2	2	2	2	2	2	2	2

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				01	02	03	04	05	06	07	08	09	
1	143-119	CONNECTOR, RECPT, 42 POS J9 (MON)		1				1	1	/		1	1
2													
3	148-004	CONNECTOR, PHONE JACK, 3 COND J21(AUD MON)		1				1	1	/		1	1
4													
5	166-199	CONTACT, SOCKET, 20-22 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R		A/R	A/R
6	166-224	CONTACT, SOCKET, 24-26 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R		A/R	A/R
7	166-225	CONTACT, SOCKET, 16-18 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R		A/R	A/R
8	167-614	CONNECTOR, HOUSING (PLUG) 24 POS L/D P1,P3 A 1/O P1,P2		4		4	4	4	4	4		4	4
9	167-443	CONNECTOR, HOUSING (PLUG) 20 POS L/D P2		1				1	1	/		1	1
10	167-444	CONTACT, SOCKET, SPRING PUSH ON		A/R	A/R	A/R	A/R	A/R	A/R	A/R		A/R	A/R
11	167-445	PLUG, KEYING, NYLON REF: L/D P1-4,L/D P2-14, L/D P3-3, A 1/O P1-3,P2-9		5	5	5	5	5	5	5		5	5
12	167-669	CONNECTOR, RECPT, CIR, 4 POS J20 (AUTO PLAY)						1	1	/		1	1
13	169-539	CONNECTOR, RECPT, 75 POS J10 (REM)						1	1	/		1	1
14	169-719	CONNECTOR, RECPT, 34 POS J22 (TBC)						1	1	/		1	1
15													
16	302-335	STRAP, CABLE		A/R	A/R	A/R	A/R	A/R	A/R	A/R		A/R	A/R
17	616-569	CABLE COAX., MINI, 75 OHMS		A/R	A/R	A/R	A/R	A/R	A/R	A/R		A/R	A/R
18	296-004	LACING, NYLON,BLACK										A/R	A/R
19	616-591	CABLE, SHIELDED, 6 COND, 24 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R		A/R	A/R
20		CABLE, SHIELDED, 1 COND, 24 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R		A/R	A/R
21		WIRE, STRANDED, 24 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R		A/R	A/R
22		WIRE, STRANDED, 20 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R		A/R	A/R
23	616-720	CABLE, TWIN AXIAL, 125 OHMS, 26 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R		A/R	A/R
24	636-028	CABLE, SHIELDED, 2 COND, 24 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R		A/R	A/R
25		SLEEVING, SHRINK		A/R	A/R	A/R	A/R	A/R	A/R	A/R		A/R	A/R

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-02											
1		PRINTED WIRING BOARD													
2															
3	1400255	SCHEMATIC	C												
4															
5	103307-01	STANDOFF, .250 LG	REF: R29-31,35,36	10											
6	103307-02	STANDOFF, .125 LG	REF: R8,15	4											
7	1374188-01	INDUCTOR, FILTER	L1-4	4											
8	013-678	DIODE (2N3945)	CR18	1											
9	013-257	DIODE, ZENER, (1N753A) 6.2V	VR5,10,11	3											
10	013-983	DIODE, ZENER, (1N752A) 5.6V	VR13,14	2											
11	013-332	DIODE, ZENER, (1N750A) 4.7V	VP1-4,6-9,12	9											
12	013-599	DIODE, CD458 (1N4531)	CR1-11,16,17	13											
13	013-871	DIODE, SILICON, (1N4006)	CR12-15	4											
14	014-247	TRANSISTOR, CD38 (2N2222)	Q7	1											
15	014-364	CD438 (2N2905A)	Q8	1											
16	014-628	CD534 (2N2722)	Q4	1											
17	014-652	CD524 (2N3906)	Q1,6,10	3											
18	014-653	CD525 (2N3904)	Q2,5,9,19	4											
19	014-938	(2N3439)	Q11,12,17,18	4											
20	580-779	TRANSISTOR, (2N5416)	Q13-16	4											
21	014-631	TRANSISTOR, CD515 (2N3536)	Q3	1											
22	014-327	HEAT SINK	REF: Q11-18	8											
23															
24	064-062	CAPACITOR, CERAMIC, .1uF, 50V, 20%	C1,2,6,10,11,12	6											
25															
26	034-181	CAPACITOR, MICA, 47pF, 500V, 5%	C3,4	2											
27	056-163	CAPACITOR, MICA, 470pF, 500V, 5%	C5,7-9	4											
28															
29	035-734	CAPACITOR, MYLAR, .01uF, 50V, 5%	C19	1											
30	035-893	CAPACITOR, MYLAR, .1uF, 50V, 5%	C21	1											
31															
32	037-954	CAPACITOR, TANT., 22uF, 15V	C14,17,18,20	4											
33															
34	030-300	CAPACITOR, CERAMIC, .1uF, 500V	C13,16	2											
35															
36															
37															

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400253 SHEET 2	REV M									
ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
					-02											
38	066-666		RESISTOR, C.F., 2.7K OHMS, 1/4W, 5%	R9,14	2											
39	066-830		10K OHMS,	R38,40,41	3											
40	066-665		1K OHMS,	R33,37,39,43,44,45	6											
41	076-039		20 OHMS,	R17,22,24,27	4											
42	066-815		300 OHMS,	R18,21,28,32	4											
43	066-662		200 OHMS,	R2,3	2											
44	066-812		100 OHMS,	R19,20	2											
45	066-817		480 OHMS,	R5,6	2											
46	066-821		820 OHMS,	R10-13	4											
47	066-841		1.3K OHMS,	R16,23,25,26	4											
48	066-675		C.F., 1.8K OHMS, 1/4W, 5%	R1,4	2											
49	066-668		C.F., 4.7K OHMS, 1/4W, 5%	R7	1											
50	041-793		COMP., 10 MEG OHMS, 1/4W, 5%	R42	1											
51																
52	041-117		100K OHMS, 1W, 5%	R8,15	2											
53	041-236		150K OHMS, 2W, 5%	R36	1											
54	041-293		47K OHMS, 2W, 5%	R29,31	2											
55	041-536		RESISTOR, COMP., 200K OHMS, 2W, 5%	R30,35	2											
56																
57																
58	590-618		INTEGRATED CIRCUIT, CD4066 PRESTRESSED	A1	1											
59	590-582		INTEGRATED CIRCUIT, TL071CP PRESTRESSED	A2	1											
60																
61																
62	070-399		FUSE PART, CLIP	REF: F1,2	4											
63	070-409		FUSE, .031 AMP, FB	F1,2	2											
64																
65	087-388		COMPOUND, HEATSINK	A/R												
66																
67	135-023		HEADER, ASSY., 20 POS.	AST J1	1											
68	135-047		HEADER, ASSY., 10 POS.	AST J2	1											
69																
70	187-259		TERMINAL LUG	TL1-8	8											
71																
72	280-998		TRANSISTOR, MOUNTING PAD	REF: Q7,8,11-18	10											
73																
74																
75																
76			SLEEVING, SHRINK, CLEAR	REF: L1-4	A/R											
			NOTE:													
			4	STATIC SENSITIVE; SPECIAL HANDLING REQUIRED												



Assembly No. 1400253-02M. AST Driver PWA

1400455-02

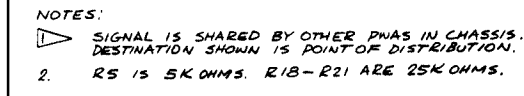
CONTROL PANEL ASSEMBLY
NEXT HIGHER ASSEMBLY 1400409

REV. L

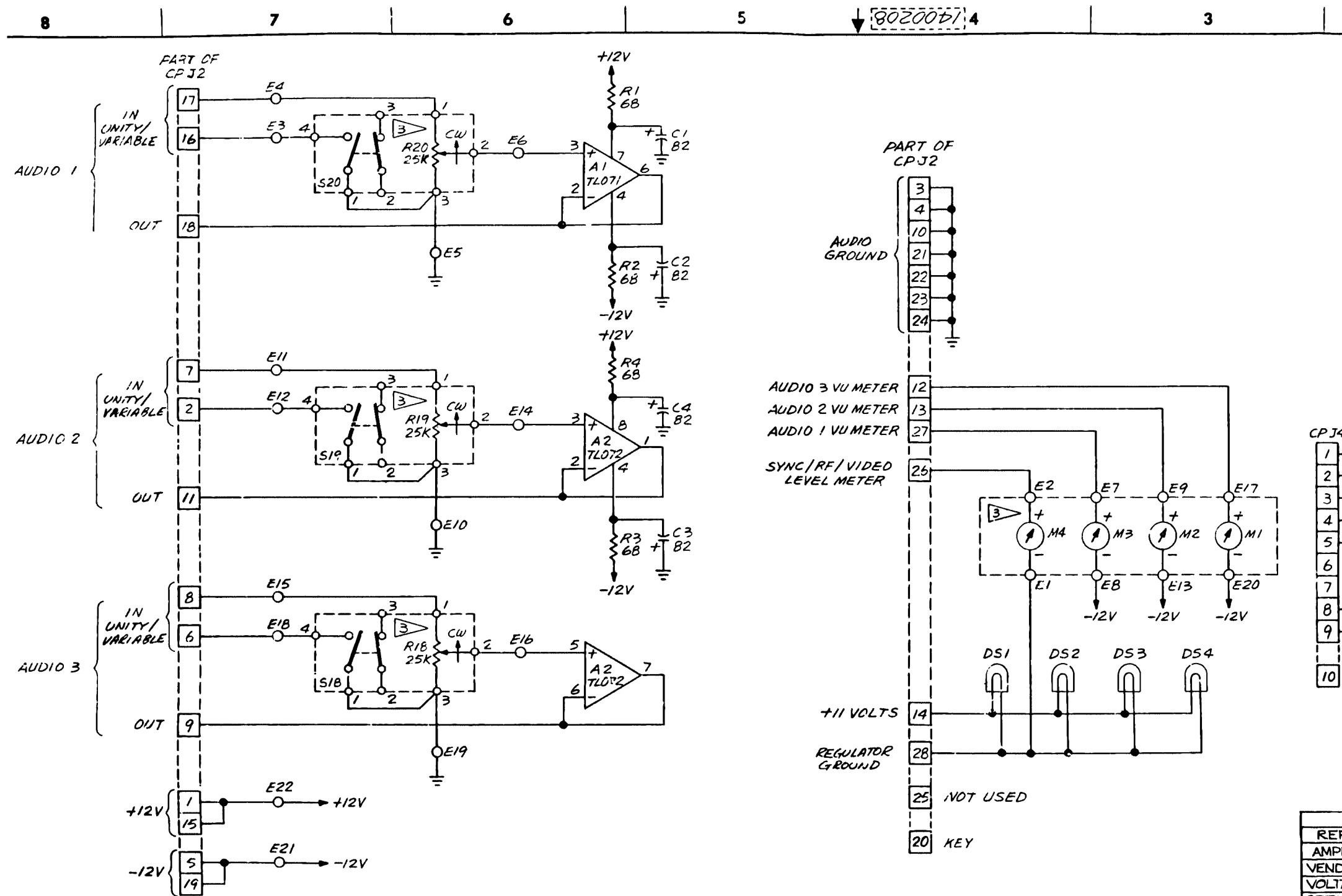
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				01	-02								
1													
2	1378566-01	METER, VIDEO M4		1	1								
3	1378583-01	SWITCH, ROTARY, 3P3P S14		1	1								
4	1378596-01	PLATE, DRESS, SWITCH REF: S8-13,15-17		9	9								
5	1378915-03	BRACKET, METER		1	1								
6	1378916-01	PLATE, CIRCUIT BREAKER REF: CB1		1	1								
7	498-341	NUT, HEX, 4-40 X .38 FLANGED		1	1								
8	1378918-03	PLATE, THREE SWITCH REF: S15-17		1	1								
9	1379424-01	SWITCH ASSEMBLY, POTENTIOMETER R5,S5		1	1								
10	1400440-AA	LENS, PUSHBUTTON, REC REF: S7		1	1								
11	1400440-AB	LENS, PUSHBUTTON, PLAY REF: S4		1	1								
12	1400440-AC	LENS, PUSHBUTTON, SLOW REF: S2		1	1								
13	1400440-AD	LENS, PUSHBUTTON, SHTL REF: S1		1	1								
14	1400440-AE	LENS, PUSHBUTTON, READY REF: S3		1	1								
15	1400440-AF	LENS, PUSHBUTTON, STOP REF: S6		1	1								
16	1379282-01	BRACKET, TOGGLE SWITCH REF: S13		1	1								
17	1400433	WIRING DIAGRAM		E	H								
18	1400456-03	PANEL, CONTROL		1	1								
19	1400206-03	PWA, AUDIO LEVEL		1	1								
20	1400213-01	PWA, METER SELECT LED		1	1								
21	1400457	HARNESS ASSEMBLY	REF	REF									
22	1400458-02	BRACKET HOUR METER		1	1								
23	6000002-20	KNOB, SKIRTED, BLACK REF: R18-21,S14		5	5								
24	6000009-20	KNOB, SKIRTED, BLACK REF: R5		1	1								
25	6000035-01	LABEL SERIALIZED		1	1								
26													
27													
28													
29													
30	1400441-02	PLATE, 5 SWITCH MOUNTING REF: S8-12		1	1								
31	1400442-01	PWA, STATUS LED		1	1								
32	1400444-01	PWA, INTERVAL/REC LOCKOUT LED		1	1								
33	1400446-01	GUARD, CIRCUIT BREAKER		1	1								
34													
35													
36	058-863	RESISTOR, VAR., SW., 5K R21/S21		1	1								
37	058-960	RESISTOR, VAR., SW., 25K R18,19,20, S18,19,20		3	3								

LM-1400455

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1400455	SHEET 2										L
ITEM NO	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER												
					-01	-02											
38	060-407		LAMP, INCANDESCENT, 14V	M1-4,S1-4,6,7	10	10											
39	090-232		METER, VU	M1,2,3	3	3											
40	119-395		SWITCH, SPDT (OFF-ON)	S9-13,15,16	7	7											
41	119-596		SWITCH, SPDT (ON-OFF-ON)	S8	1	1											
42	119-576		SWITCH, PADDLE HANDLE	S17	1	1											
43	119-587		SWITCH, PUSHBUTTON, SP	S1,2,3,4,7	5	5											
44	090-246		METER, ELAPSED TIME	M5	1	1											
45	302-200		CLAMP CABLE		1	-											
46	283-210		SPACER, PLAIN, UNTHREADED, .140 I.D., .250 O.D., .203 LG		2	2											
47	126-330		CIRCUIT BREAKER, 7.5/3,75A	CB1	1	1											
48	302-344		STRAP, ACCESSORY, MOUNTING PLATE		1	1											
49	166-200		CONTACT, PIN, 22-20 AWG		A/R	AR											
50	166-225		CONTACT, PIN, 18-16 AWG		A/R	AR											
51	166-226		CONTACT, PIN, 26-24 AWG		A/R	AR											
52	166-858		CONNECTOR, PLUG, 50 POS	CP P1	1	1											
53	167-444		CONTACT, SPRING, 24-20 AWG		A/R	AR											
54	167-446		CONNECTOR, PLUG, RECT., 28 POS.	CP P3	1	1											
55	167-445		CONNECTOR, PART, KEY	REF: PIN 24, CP P3	1	1											
56	187-038		TERMINAL, TAB QUICK DISCONNECT	REF: CB1	1	1											
57	119-588		SWITCH, PUSHBUTTON, S.P.	S6	1	1											
58	269-120		EXTRUSION, RUBBER		A/R	AR											
59	280-003		SPACER, UNTHREADED, #6 X .25 LG		4	4											
60	280-969		SPACER, UNTHREADED, #6 X .312 LG		2	2											
61	280-561		SPACER, THREADED, 6-32 X 1		2	2											
62	283-058		SPACER, THREADED, 6-32 X .50 LG, HEX		6	6											
63	470-476		SCREW, CAP, BUTTON HD., 4-40 X .50 LG		1	1											
64	472-463		SCREW, MACHINE, FLAT, 2-56 X .187 LG		2	2											
65	492-457		NUT, HEX, 3/8" X 32		9	9											
66	501-071		WASHER, FLAT, 3/8"		4	4											
67	502-077		WASHER, LOCK, INT., 3/8"		4	4											
68			SCREW, MACH, PAN HD, XREC		A/R	AR											
69			WASHER, PLAIN (SMALL PATTERN)		A/R	AR											
70			WASHER, LOCK, INT.		A/R	AR											
71			NUT, ASSEM., WASHER (SMALL PATTERN)		A/R	AR											
72	492-457		NUT, HEX, 3/8 X 32	REF: ITEM 9	1	1											
73	616-283		CABLE, SHIELDED, 2 COND., 22 AWG		A/R	AR											
74	615-004		WIRE, SOLID, BARE, 24 AWG		A/R	AR											
75	616-591		CABLE, SHIELDED, 6 COND., 24 AWG		A/R	AR											
76			WIRE, STRANDED, 24 AWG		A/R	AR											
77			WIRE, STRANDED, 20 AWG		A/R	AR											
78	302-388		STRAP, CABLE		A/R	AR											
79	501-224		WASHER, PLAIN, 3/8"	REF: ITEM 9	2	1											
80	502-083		WASHER, LOCK, INT. T. 3/8	REF: ITEM 9	1	1											
81	501-986		WASHER, PLAIN, NON-METALLIC BLACK		1	1											
82	506-027		WASHER, "D" #6		1	1											



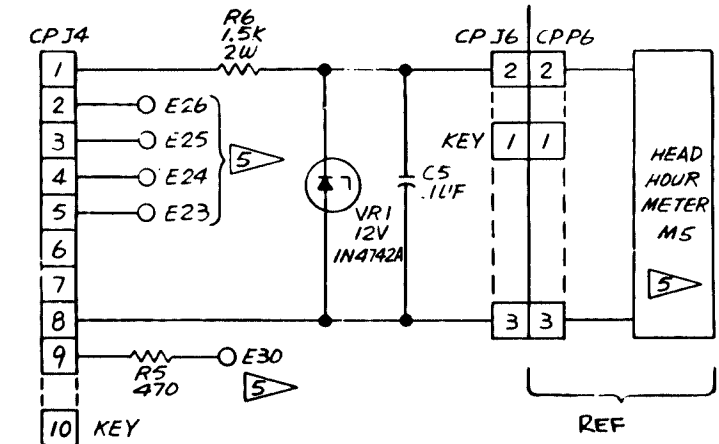
Wiring Diagram No. 1400433H. Control Panel Assembly



NOTES: UNLESS OTHERWISE SPECIFIED

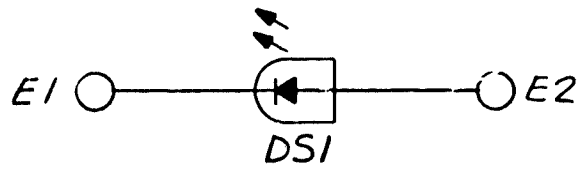
1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
2. CAPACITANCE VALUES ARE IN MICROFARADS, 15%.
3. PART OF CONTROL PANEL ASSEMBLY, 1400430.
4. THIS SCHEMATIC REFLECTS PWA 1400206-03.
5. FOR CONNECTIONS SEE CONTROL PANEL WIRING DIAGRAM.

REFERENCE DESIGNATIONS	
LAST USED	NOT USED
A2	
C5	
DS4	
E31	E27,28,29,31
R6	
VR1	

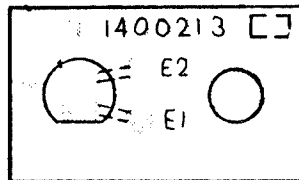


I.C. LIST	
REF DES	A1 A2
AMPEX P/N	590-582 590-502
VENDOR P/N	TL071 TL072
VOLTAGE PIN	-12V(7) +12V(8)
GROUND PIN	-12V(4)

Schematic No. 1400208C.
Audio Level PWA

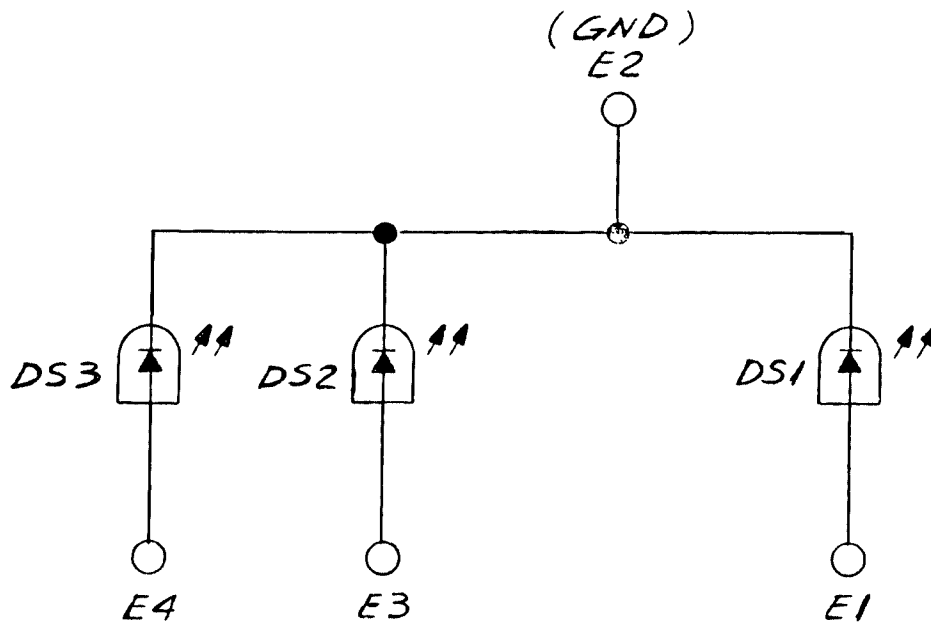


SCHEMATIC

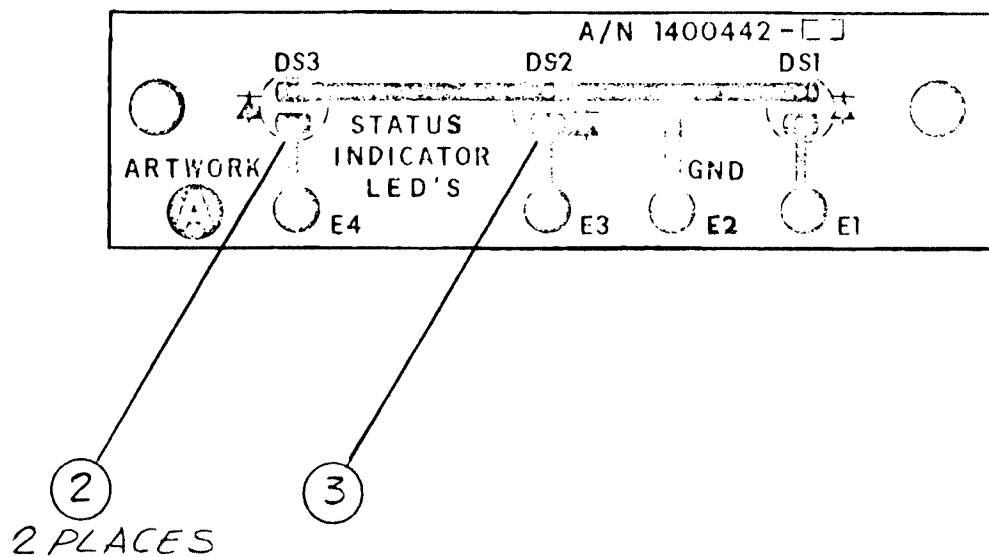


1	2	581-517	L.E.D., GREEN (HP-5082-4055) DS1		
	1				
-01	ITEM NO	PART NUMBER		DESCRIPTION	

Assembly No. 1400213-01A. Meter Select LED PWA

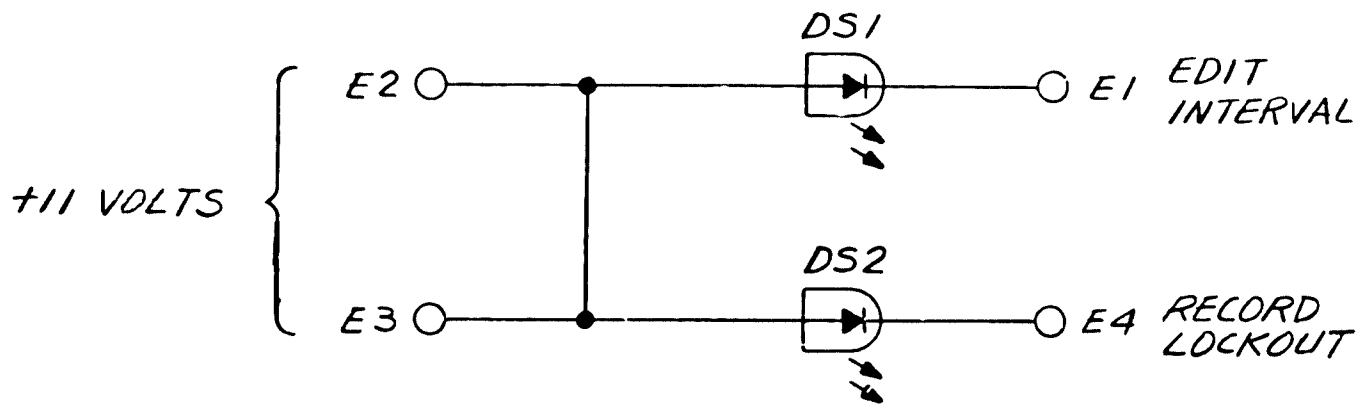


SCHEMATIC

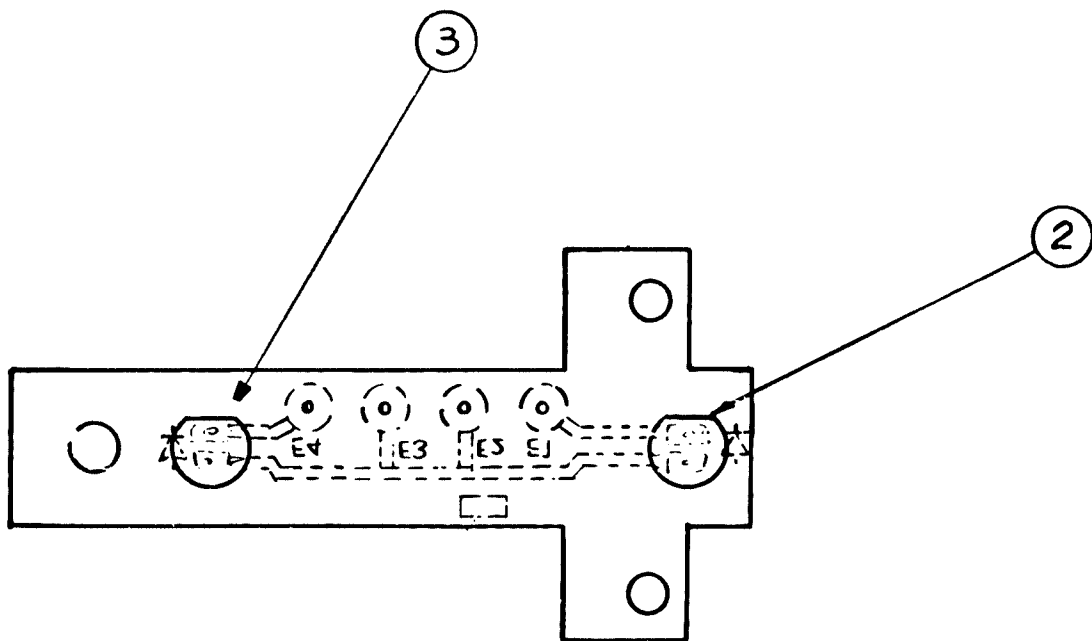


1	3	581-476	LED, RED	(HP-5082-4555)	DS2
2	2	581-475	LED, AMBER	(HP-5082-4655)	DS1,3
	1				
-01	ITEM NO	PART NUMBER		DESCRIPTION	

Assembly No. 1400442-01D. Status Indicator LED PWA



SCHEMATIC

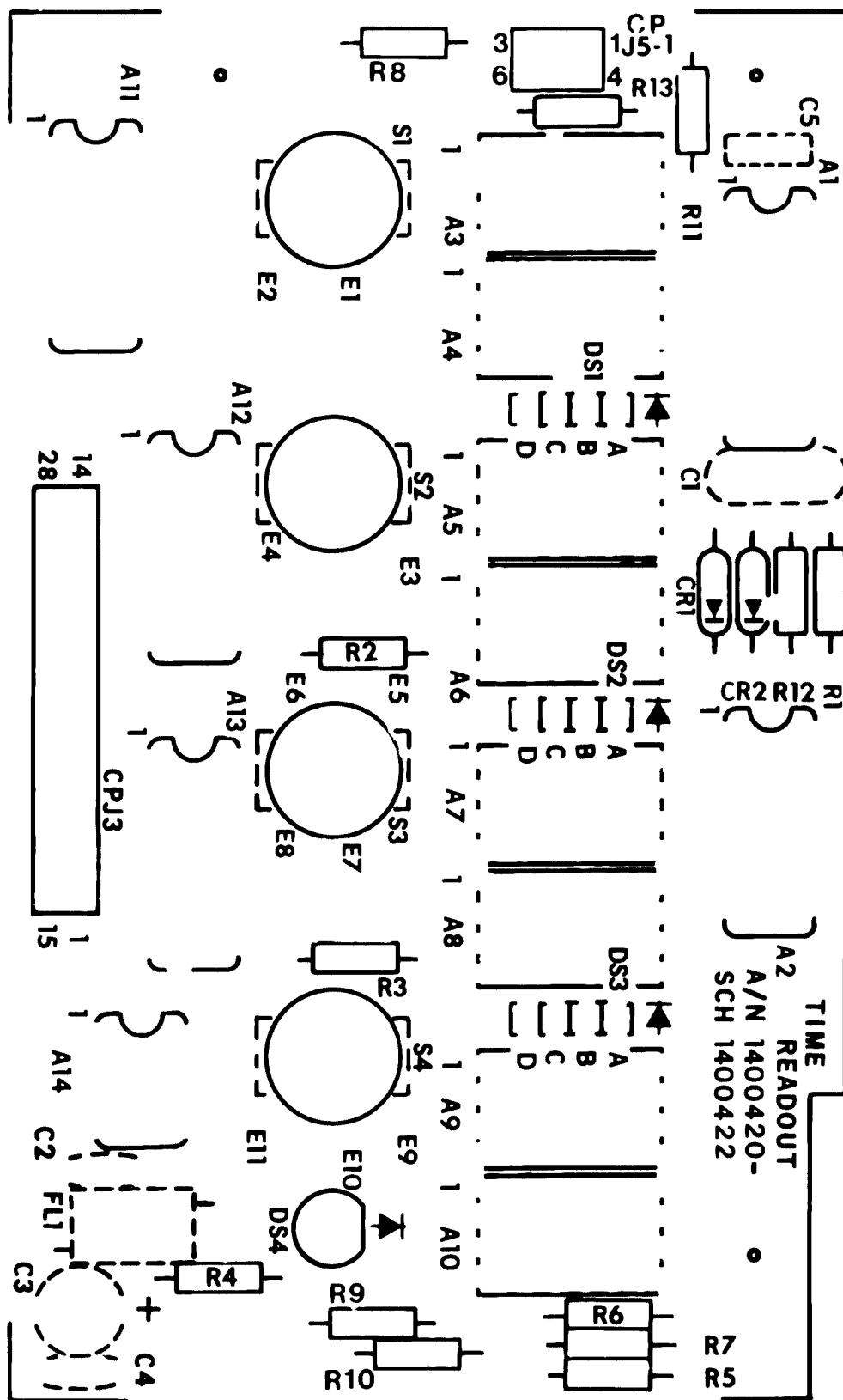


1	3	581-476	L.E.D., RED	(HP-5082-4535)	DS 2
1	2	581-475	L.E.D., AMBER	(HP-5082-4655)	DS 1
	1				
-01	ITEM NO	PART NUMBER		DESCRIPTION	

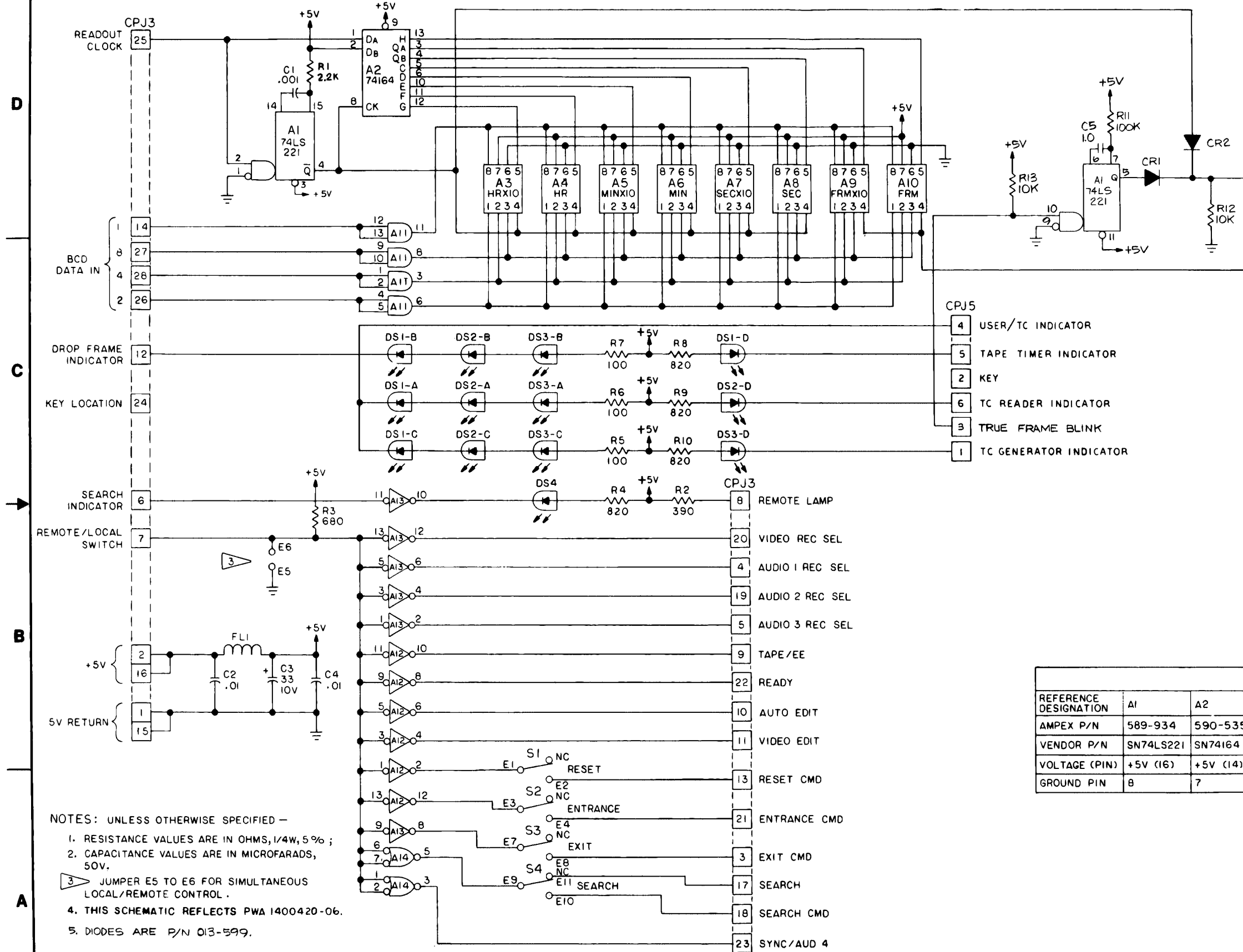
Assembly No. 1400444-01E. Interval/Rec Lockout LED PWA

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQUIRED PER DASH NUMBER									
				-01	-02	-03	-04	-05	-06				
1													
2	1400422	SCHEMATIC		(-)	A	B	C	D	F				
3	1374188-01	INDUCTOR, FILTER	FL1	1	1	1	1	1	1				
4													
5	034-950	CAPACITOR, MICA, 1000 pF	C1	1	1	1	1	1	1				
6	037-963	CAPACITOR, TANT., 33 uF, 10V	C3	1	1	1	1	1	1				
7	064-116	CAPACITOR, CER., .01 uF, 50V	C2,4	2	2	2	2	2	2				
8													
9	013-599	DIODE, SWITCHING, (1N4531)	CR1,2						2				
10	581-475	DIODE, LIGHT EMITTING, AMBER, HP 5842-1000	DS4	1	1	1	1	1	1				
11	581-647	LED ARRAY, 4 ELEMENT, 1/8" x 1/8"	DS1,2,3	3	3	3	3	3	3				
12	135-159	HEADER ASSEMBLY, 6 POS., RIGHT ANGLE	CP J5	1	1	1	1	1	1				
13	135-025	HEADER ASSEMBLY, 28 PIN	CP J3	1	1	1	1	1	1				
14													
15	590-538	INTEGRATED CIRCUIT, 7408 PRESTRESSED	A11	1	1	1	1	1	1				
16	590-576	INTEGRATED CIRCUIT, 7417	A12,13	2	2	2	2	2	2				
17	590-535	INTEGRATED CIRCUIT, 74164	A2	1	1	1	1	1	1				
18	589-934	INTEGRATED CIRCUIT, 74LS221	A1	1	1	1	1	1	1				
19	590-324	INTEGRATED CIRCUIT, 75451B PRESTRESSED	A14	1	1	1	1	1	1				
20	581-525	INTEGRATED CIRCUIT, READOUT	A3-10	8	8	8	8	8	8				
21	066-830	RESISTOR, C.F., 10K OHMS, 1/4W, 5%	R12,13						2				
22	066-821	RESISTOR, C.F., 820 OHMS, 1/4W, 5%	R4,8,9,10	4	4	4	4	4	4				
23	066-666	RESISTOR, C.F., 2.7K OHMS, 1/4W, 5%	R1	1	1	1	1	1	1				
24	066-816	RESISTOR, C.F., 390 OHMS, 1/4W, 5%	R2	1	1	1	1	1	1				
25	066-840	RESISTOR, C.F., 680 OHMS, 1/4W, 5%	R3	1	1	1	1	1	1				
26	066-812	RESISTOR, C.F., 100 OHMS, 1/4W, 5%	R5,6,7	3	3	3	3	3	3				
27	066-720	RESISTOR, C.F., 3.3K OHMS, 1/4W, 5%	R1		1	1	1	1	1				
28	066-689	RESISTOR, C.F., 2.2K OHMS, 1/4W, 5%	R1					1	1				
29	120-940	SWITCH, PUSHBUTTON SPDT	S1-4	4	4	4	4	4	4				
30	121-219	SWITCH, PUSHBUTTON, WHITE	REF: S2-4	3	3	3	3	3	3				
31	121-322	SWITCH, PUSHBUTTON, RED	S1	1	1	1	1	1	1				
32	615-004	WIRE, BARE, 24 AWG	REF: S1-4	A/R	A/R	A/R	A/R	A/R	A/R				
33	600-232	SLEEVING, TEFLON, 24 AWG	REF: S1-4	A/R	A/R	A/R	A/R	A/R	A/R				
34	066-849	RESISTOR, C.F., 100K OHMS, 1/4W, 5%	R11						1				
35	064-314	CAPACITOR, MONO, 1.0uF, 50V	C5						1				

LM-1400420



Assembly No. 1400420-06N. Time Readout PWA



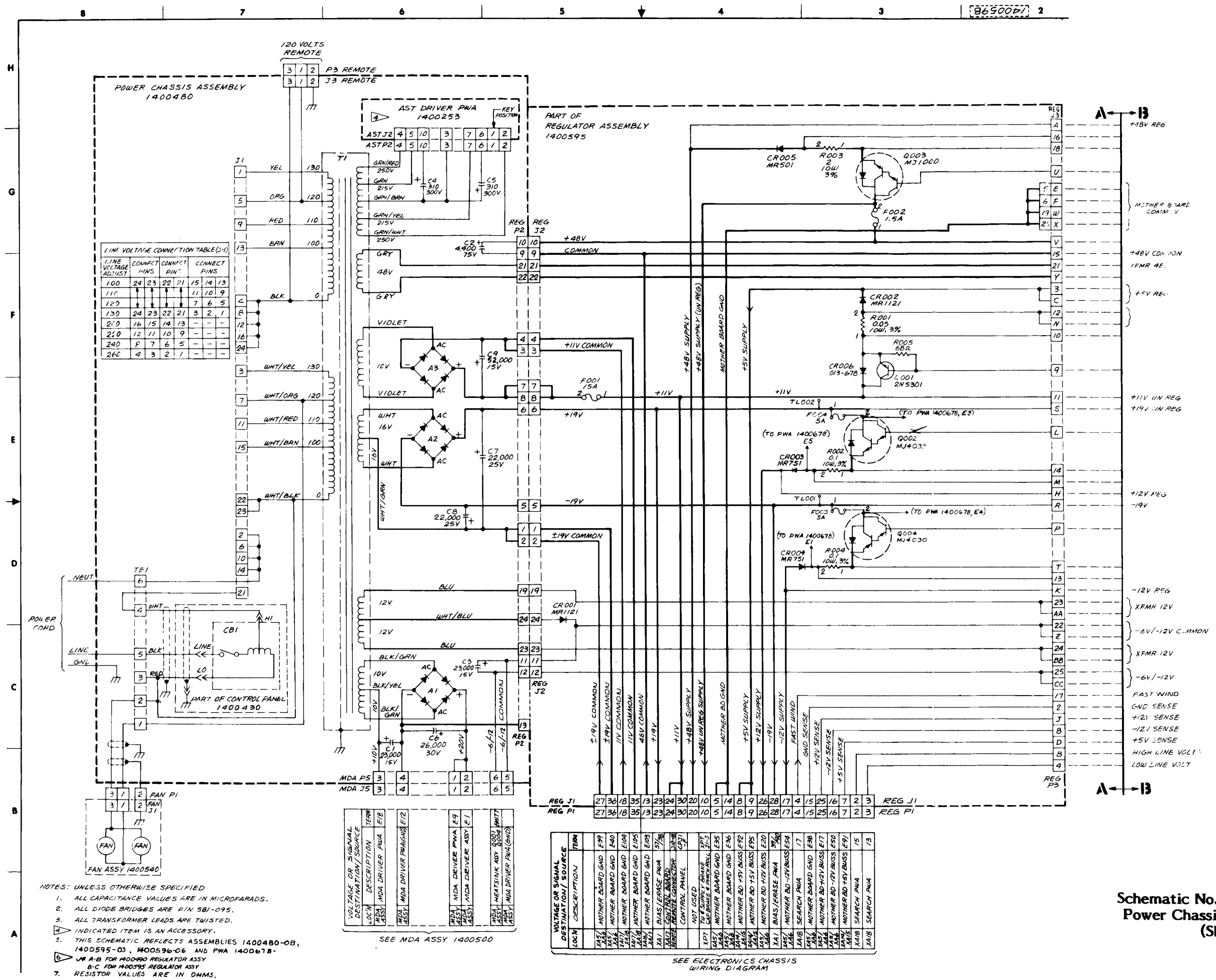
REFERENCE DESIGNATIONS	
LAST USED	NOT USED
A14	
C5	
CPJ5	CPJ1,2,4
DS4	
E11	
FL1	
R13	
S4	
CR2	

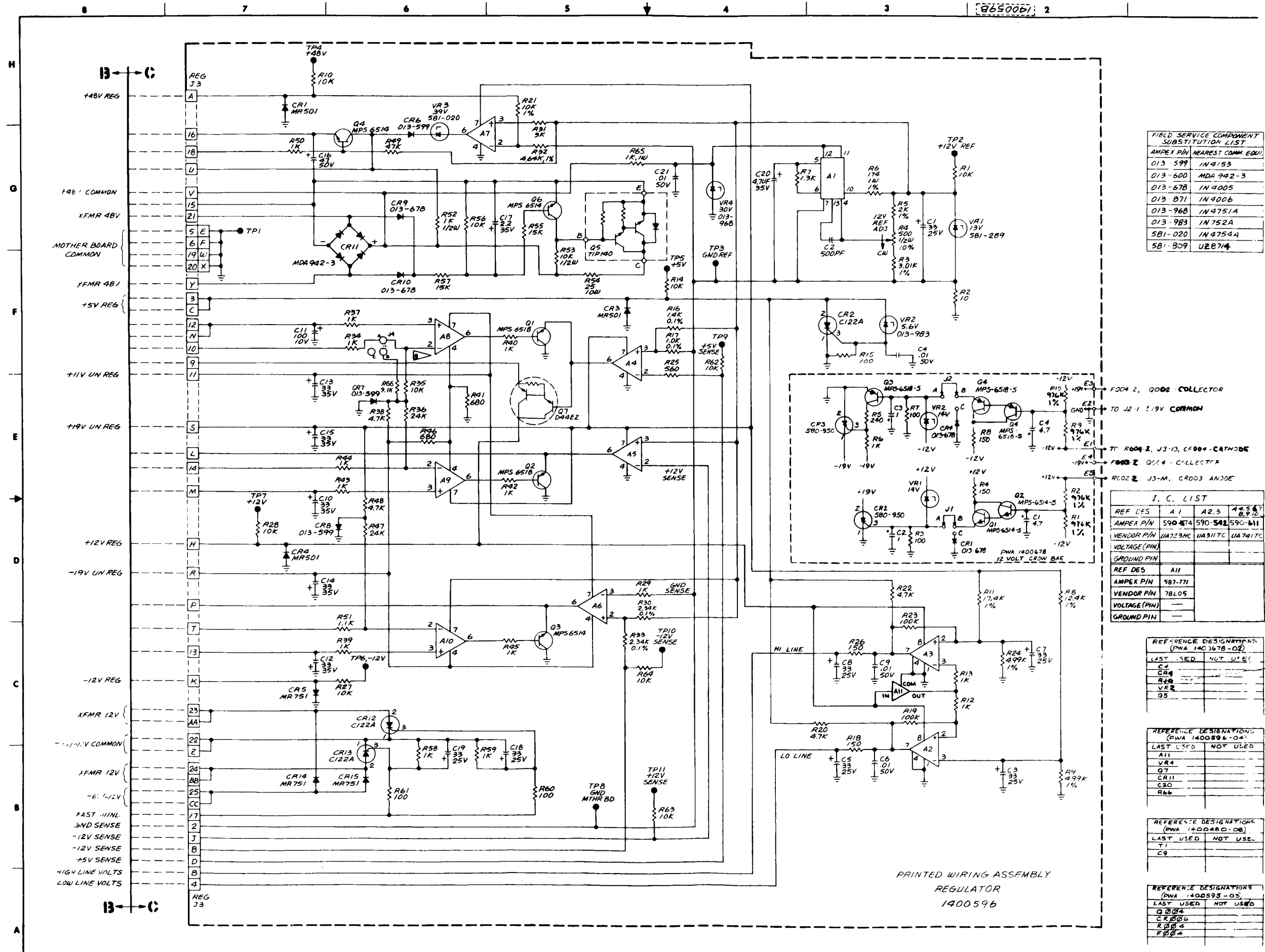
I. C. LIST						
REFERENCE DESIGNATION	A1	A2	A3,4,5,6 7,8,9,10	A11	A12,13	A14
AMPEX P/N	589-934	590-535	581-525	590-538	590-576	590-324
VENDOR P/N	SN74LS221	SN74164	5082-7340	SN7408N	SN7417	SN75451B
VOLTAGE (PIN)	+5V (16)	+5V (14)	+5V (7)	+5V (14)	+5V (14)	+5V (8)
GROUND PIN	8	7	6	7	7	4

Schematic No. 1400422F.
Time Readout PWA

ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER							
				-05	-06	-07	-08				
1	1374214-AA	JUMPER PLUG REF: J1			1	1	1				
2	1374214-AB	JUMPER PLUG REF: J1			1	1	1				
3											
4	1400483-02	CHASSIS, POWER ASSEMBLY			1	1	1				
5	1378927-01	BRACKET, VOLTAGE SELECTOR			1	1	1				
6	1379059-02	BRACKET, POWER TRANSFORMER			1	1	1				
7	1379192-01	LABEL, VOLTAGE SELECT			1	1	1				
8	1400481-01	TRANSFORMER, POWER T1			1	1	-				
9	1400482	HARNESS, POWER CHASSIS		REF	REF	REF	REF				
10	1400481-02	TRANSFORMER, POWER				-	1				
11	1400598	SCHEMATIC, REGULATOR AND POWER CHASSIS		F	G	G	N				
12	6000035-01	LABEL, SERIALIZED		1	1	1	1				
13											
14	038-320	CAPACITOR, 4400uF, 75V, +100% -10% C2		1	1	1	1				
15	038-321	CAPACITOR, 22,000uF, 25V, +100% -10% C7,8		2	2	2	2				
16	038-322	CAPACITOR, 23,000uF, 15V, +100% -10% C1,3		2	2	2	2				
17	063-252	CAPACITOR, 26,000uF, 30V, +75% -10% C6		1	1	1	1				
18											
19	063-380	CAPACITOR, 52,000 uF, 15V C9		1	1	1	1				
20	084-030	CORD SET, POWER, 3 COND., 18AWG, 8 FT. LG.		1	1	1	1				
21	087-388	HEATSINK COMPOUND		A/R	A/R	A/R	A/R				
22	063-390	CAPACITOR, ALUM., 310uF, 300V C4,5		2	2	2	2				
23	166-199	CONTACT, SOCKET, 20-22 AWG		A/R	A/R	A/R	A/R				
24	166-200	CONTACT, PIN, 20-22, AWG		A/R	A/R	A/R	A/R				
25	166-224	CONTACT, SOCKET, 24-26 AWG		A/R	A/R	A/R	A/R				
26	166-225	CONTACT, SOCKET, 16-18 AWG		A/R	A/R	A/R	A/R				
27	166-227	CONTACT, PIN, 16-18 AWG		A/R	A/R	A/R	A/R				
28	177-065	CONTACT, SOCKET, 14 AWG				-	12				
29											
30	167-022	CONNECTOR, PLUG, 6 POS MDA P5		1	1	1	1				
31	167-026	CONNECTOR, PLUG, 24 POS REG P2		1	1	1	1				
32	167-027	CONNECTOR RECPT, 24 POS J1		1	1	1	1				
33	167-129	CONTACT SPRING, PUSH ON, 24-20 AWG		A/R	A/R	A/R	A/R				
34	167-854	KEY, POLARIZING (AST P2-1)		1	1	1	1				
35	167-450	CONNECTOR, PLUG, 3 POS FAN P1		1	1	1	1				
36	167-451	CONNECTOR, RECPT, 3 POS REMOTE J3		1	1	1	1				
37	167-575	CONNECTOR, PLUG, 10 POS AST P2		1	1	1	1				

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400480 SHEET 2	AK										
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER													
				-05	-06	-07	-08										
38	171-005	TERMINAL, RING #6, 18-22 AWG		A/R	A/R	A/R	A/R										
39	171-007	TERMINAL, RING, #10, 14-16 AWG		A/R	A/R	A/R	A/R										
40	171-178	TERMINAL, RING, #10, 18-22 AWG		A/R	A/R	A/R	A/R										
41	180-963	TERMINAL STRIP, 7 TERM	TB1	1	1	1	1										
42	180-964	TERMINAL, STRIP, PART MARKER		1	1	1	1										
43	172-363	TERMINAL, 22-18 AWG, QUICK DISCONNECT		A/R	A/R	A/R	A/R										
44	172-362	TERMINAL, 16-14 AWG, QUICK DISCONNECT		A/R	A/R	A/R	A/R										
45																	
46	260-039	GROMMET, 5/8"		1	1	1	1										
47	264-019	CLAMP, CORD		1	1	1	1										
48	280-209	STANDOFF, HINGED, 1.0 LG		2	2	2	2										
49	283-027	STANDOFF, 2.5 LG		2	2	2	2										
50	283-028	STANDOFF, 1.5 LG		2	2	2	2										
51	283-029	SPACER, .81 LG		2	2	2	2										
52	290-108	CLAMP, CAPACITOR, SIZE E		1	1	1	1										
53	301-130	CLAMP, CAPACITOR, SIZE C		5	5	5	5										
54	301-998	CLAMP, CAPACITOR, SIZE D		3	3	3	3										
55	302-335	STRAP, CABLE		A/R	A/R	A/R	A/R										
56	471-069	SCREW, MACH., PAN HD., XRED 6-32 X 3/8 LG		18	18	18	18										
57	471-071	SCREW, MACH., PAN HD., XREC, 6-32 X 1/2 LG		9	9	9	9										
58	471-339	SCREW, MACH., FH, XREC, 6-32 X 5/8 LG		3	3	3	-										
59	471-741	SCREW, MACH., PAN HD., XREC, SEMS 10-32 X 1.5 LG		2	2	2	2										
60	473-928	SCREW, MACH., PAN HD., XREC, 10-32 X 3/8 LG		4	4	4	4										
61	475-058	SCREW, MACH., PAN HD., XREC, SEMS 6-32 X 3/8 LG		21	21	21	21										
62	475-062	SCREW, MACH., PAN HD., XREC, SEMS 6-32 X 5/8 LG		6	6	6	6										
63	475-998	SCREW, MACH., PAN HD., XREC, SEMS 6-32 X 3/4 LG					3										
64	496-005	NUT, KEP, 6-32		32	32	32	32										
65	501-009	WASHER, PLAIN, FLAT #6		28	28	28	28										
66	501-070	WASHER, PLAIN, #10		6	6	6	6										
67	502-027	WASHER, LOCKING, INT, TOOTH #10		16	16	16	16										
68	581-095	DIODE, BRIDGE, 25A, 200 VOLTS	A1-3	3	3	3	3										
69	600-236	SLEEVEING, TEFLON, .047 I.D., NATURAL		A/R	A/R	A/R	A/R										
70	600-256	SLEEVEING, PVC, SHRINK, BLK, .38 I.D.		A/R	A/R	A/R	A/R										
71	616-283	CABLE, SHIELDED, 2 COND., 22AWG		A/R	A/R	A/R	-										
72	616-404	CABLE, SHIELDED, 3 COND., 18 AWG		A/R	A/R	A/R	A/R										
73	502-005	WASHER, SPLIT LOCK, #10		6	6	6	6										
74	616-395	CABLE, SHIELDED, 2 COND., 18 AWG.					A/R										
75		WIRE, STRANDED, 24 AWG		A/R	A/R	-	-										
76		WIRE, STRANDED, 20 AWG		A/R	-	-	-										
77		WIRE, STRANDED, 18 AWG		A/R	-	-	-										
78		WIRE, STRANDED, 16 AWG		A/R	-	-	-										
79		WIRE, STRANDED, 20 AWG.		A/R	A/R	A/R	A/R										
80		WIRE, STRANDED, 18 AWG.		A/R	A/R	A/R	A/R										
81		WIRE, STRANDED, 16 AWG.		A/R	A/R	A/R	A/R										
82		WIRE, STRANDED, 18 AWG (UL APPROVED)				A/R	A/R										





FIELD SERVICE COMPONENT SUBSTITUTION LIST	
AMPEX P/N	NEAREST COMM. EQUIV.
013-599	1N4153
013-600	MDA 942-3
013-678	1N4005
013-871	1N4006
013-968	1N4751A
013-983	1N752A
5B1-020	1N4754A
5B1-809	U2B74

I. C. LIST			
REF DES	A1	A2,3	A4,5,6,7
AMPEX P/N	590-574	590-542	590-611
VENDOR P/N	UA723HC	UA311TC	UA741TC
VOLTAGE (PIN)			
GROUND PIN			
REF DES	A11		
AMPEX P/N	587-771		
VENDOR P/N	78L05		
VOLTAGE (PIN)			
GROUND PIN			

REFERENCE DESIGNATIONS (PWA 1400596-02)		
LAST USED	NOT USED	
C4		
CR4		
R10		
VR2		
Q5		

REFERENCE DESIGNATIONS (PWA 1400596-04)		
LAST USED	NOT USED	
A11		
VR4		
Q7		
CR11		
C20		
R66		

REFERENCE DESIGNATIONS (PWA 1400595-05)		
LAST USED	NOT USED	
Q104		
CR106		
R104		
F104		

Schematic No. 1400598P.
Power Chassis Assembly
(Sheet 2 of 2)

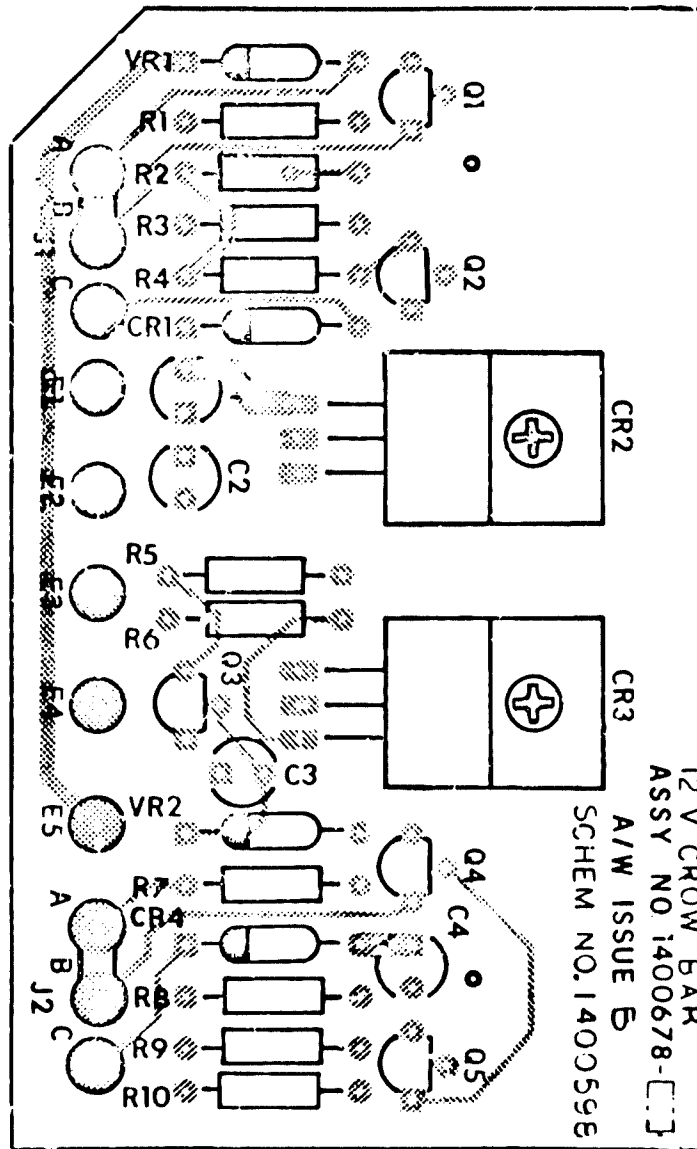
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02	-03							
1	1367615-01	CONNECTOR MOUNTING BLOCK		1		2							
2	1378922-01	BRACKET, REGULATOR		1		-							
3	1400496-01	BRACKET, CONNECTOR. PS REGULATOR		1		1							
4	1400495-02	HEATSINK, REGULATOR		1		-							
5	1400596-06	PWA, POWER REGULATOR		1		1							
6	1378922-03	BRACKET, REGULATOR		1		1							
7	1400598	SCHEMATIC, POWER REGULATOR		G		N							
8	1400593	HARNESS	REF			REF							
9	013-857	DIODE, POWER, 12A, MR1121	CR001,002	2		2							
10	013-678	DIODE, POWER, RECTIFIER, CD451, IN4385	CR006	1		1							
11	014-703	INSULATOR, TRANSISTOR, TO-3		4		4							
12	059-408	RESISTOR, W.W., 0.05 OHMS, 10W, 3%	R001	1		1							
13	043-451	RESISTOR, W.W., 2.0 OHMS, 10W, 3%	R003	1		1							
14	043-583	RESISTOR, W.W., 0.1 OHMS, 10W, 3%	R002,004	2		2							
15	066-677	RESISTOR, C.F., 68 OHMS, 1/4W, 5%	R005	1		1							
16	070-431	FUSE, CARTRIDGE, FAST BLOW, 15A	F001	1		1							
17	070-012	FUSE, CARTRIDGE, FAST BLOW, 1.5A	F002	1		1							
18	1400678-01	PWA, 12 VOLT CROW BAR	New Part # 1400666-020			1							
19	1400495-03	HEATSINK, REGULATOR				1							
20	087-550	HEATSINK COMPOUND	A/R			A/R							
21	130-003	FUSE HOLDER, DOUBLE	F001,002	1		1							
22	143-744	CONNECTOR, PWB, 25 POS, DUAL	REG J3	1		1							
23													
24	166-199	CONTACT, SOCKET, 20-22 AVG	A/R			A/R							
25	166-224	CONTACT, SOCKET, 24-26 AVG	A/R			A/R							
26	166-225	CONTACT, SOCKET, 16-18 AVG	A/R			A/R							
27	167-027	CONNECTOR, RECP., 24 POS	REG J2	1		1							
28	167-029	CONNECTOR, RECP., 36 POS.	REG J1	1		1							
29	173-080	TERMINAL, STUD, TURRETT, 4/40 X .25 LG		6		6							
30	280-209	SPACER, HINGE, 1" LG, 6-32, .25 DIAMETER		2		2							
31	280-988	SPACER, ROUND, 6-32 X 1" LG, .25 DIAMETER		2		2							
32	302-429	CLAMP, LOOP OFFSET		1		1							
33	302-335	STRAP, CABLE	A/R			A/R							
34	470-019	SCREW, CAP., HEX SOC HD., 6-32 X 7/16		4		4							
35	470-020	SCREW, CAP., HEX SOC HD., 6-32 X .5 LG		4		4							
36	472-113	SCREW, MACH, PAN HD., XREC, 2-56 X 1/4		12		12							
37	473-326	SCREW, MACH., PAN HD., XREC, 4-40 X 3/8		2		4							

Ampex 1809472-11

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01	-02	-03	-04	-05	-06						
1															
2	1400598	SCHEMATIC			D	E	J	K	M						
3	013-968	DIODE, ZENER, 1N4751A, 30V, 1W	VR4		1				1						
4	014-780	TRANSISTOR, MPS6514	03,4,6	3	3	3	3	3	3						
5	014-781	TRANSISTOR, MPS6518	01,2	2	2	2	2	2	2						
6	580-857	TRANSISTOR, TIP140	05		1				1						
7	013-678	DIODE, 1N4005	CR9,10	2	2	2	2	2	2						
8	013-599	DIODE, CD458	CR6,7,8	3	3	3	3	3	3						
9	013-600	DIODE, MOLDED BRIDGE ASSEMBLY MDA942-3	CR11		1				1						
10															
11	013-983	DIODE, ZENER, 1N752A, 5.6V, 400MW	VR2		1				1						
12	581-289	DIODE, ZENER, 1N4743A, 13V, 1W	VR1		1				1						
13	581-020	DIODE, ZENER, 1N4754A, 39V, 1W	VR3		1				1						
14	581-121	DIODE, RECT., MR751	CR5,14,15	3	3	3	3	3	3						
15	581-446	DIODE, RECT., MR501	CR1,3,4	3	3	3	3	3	3						
16															
17	580-830	TRANSISTOR, DARLINGTON, D44EZ	07		1				1						
18	580-950	SILICON CONTROLLED RECTIFIER, C122A	CR2,12,13	3	3	3	3	3	3						
19	037-908	CAPACITOR, TANT., 4.7uF, 35V	C20		1				1						
20															
21	037-927	CAPACITOR, TANT., 2.2uF, 35V	C17		1				1						
22	037-894	CAPACITOR, TANT., 100uF, 10V	C11		1				1						
23	063-318	CAPACITOR, ELECT., 47uF, 50V	C16		1				1						
24															
25	056-292	CAPACITOR, MICA, 500pF, 500V	C2		1				1						
26	037-938	CAPACITOR, TANT., 33uF, 35V	C10,12,14,15	4	4	4	4	4	4						
27	037-946	CAPACITOR, TANT., 33uF, 25V	C1,3,5,7,8,13,18,19	8	8	8	8	8	8						
28	043-307	RESISTOR, W.W., 25 OHMS, 5W, 3%	R54		1				1						
29	058-564	RESISTOR, VAR., CER., 500 OHMS, 1/2W, 10%	R4		1				1						
30	064-116	CAPACITOR, CER., .01uF, 50V	C4,6,9,21	4	4	4	4	4	4						
31															
32	103307-01	SPACER, NON-METALIC, .25 LG	REF: R54	2	2	2	2	2	2						
33															
34															
35	076-180	RESISTOR, M.F., 1.40K OHMS, 0.1%, 1/4W	R16		1				1						
36	076-179	RESISTOR, M.F., 1.00K OHMS, 0.1%, 1/4W	R17		1				1						
37	062-996	RESISTOR, M.F., 17.4K OHMS, 1/4W, 1%	R11		1				1						

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400596 SHEET 2	REV P								
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01	-02	-03	-04	-05	-06						
38	041-102	RESISTOR, C.F., 1K OHMS, 1W, 5%	R65		1					1					
39	062-643	RESISTOR, M.F., 2.0K OHMS, 1/4W, 1%	R5			1					1				
40	062-968	RESISTOR, M.F., 4.99K OHMS, 1/4W, 1%	R9,24	2	2	2	2	2	2	2					
41	062-562	12.4K OHMS,	R8		1						1				
42	062-643	2.0K OHMS,	R5,30,33	3	3						-				
43	062-965	4.64K OHMS,	R32		1						1				
44															
45	066-061	13K OHMS,	R21		1						1				
46	062-639	RESISTOR, M.F., 3.01K OHMS, 1/4W, 1%	R3		1						1				
47	041-245	RESISTOR, 1K OHMS, 1/2W, 5%	R52		1						1				
48	041-014	RESISTOR, COMP., 10K OHMS, 1/2W, 5%	R53		1						1				
49	066-993	RESISTOR, M.F., 2.34K OHMS, 1/4W, 0.1%	R30,33			2	2	2	2	2					
50	066-810	RESISTOR, C.F., 10 OHMS, 1/4W, 5%	R2		1						1				
51	066-812	100 OHMS,	R15,60,61	3	3	3	3	3	3	3					
52	066-839	560 OHMS,	R25		1						1				
53	066-665	1K OHMS,	R12,13,29,34,37,39, 40,42-45,58,59,50	4	4	4	4	4	4	4					
54	066-840	680 OHMS,	R41,46	2	2	2	2	2	2	2					
55															
56	066-830	10K OHMS,	R1,10,14,27,28,35,56, 62,63,64	10	10	10	10	10	10	10					
57	066-670	9.1K OHMS	R66					1			1				
58	066-841	1.3K OHMS,	R7		1		1		1		1				
59	066-667	3K OHMS,	R31		1		1		1		1				
60	066-668	4.7K OHMS,	R20,22,38,48	4	4	4	4	4	4	4					
61	066-717	47K OHMS,	R49		1		1		1		1				
62															
63	066-845	24K OHMS,	R36,47	2	2	2	2	2	2	2					
64	066-849	100K OHMS,	R19,23	2	2	2	2	2	2	2					
65	066-856	15K OHMS,	R55,57	2	2	2	2	2	2	2					
66	066-813	RESISTOR, C.F., 150 OHMS, 1/4W, 5%	R18,26	2	2	2	2	2	2	2					
67	066-823	RESISTOR, C.F., 1.1K OHMS, 1/4W, 5%	R51		1		1		1		1				
68	057-378	RESISTOR, M.F., 174 OHMS, 1W, 1%	R6		1		1				1				
69															
70															
71	590-611	I.C., UA741TC	A4-10	7	7	7	7	7	7	7					
72	590-542	I.C., UA311TC	A2,3	2	2	2	2	2	2	2					
73	590-574	I.C., UA723DC	A1		1		1				1				
74	587-771	I.C., 78L05	A11		1		1				1				
75															
76	087-388	HEAT SINK COMPOUND	A4, A4												
77	602-012	PLUG, SHORTING	J4					1			1				
78	471-061	SCREW, PAN HD., XREC, #4-40 X 5/16		5	5	5	5	5	5	5					
79	143-981	CONNECTOR, JACK	J4					3			3				
80															
81															
82															

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQ PER DASH NUMBER									
				-01	-02								
1				-01	-02								
2	1400598	SCHEMATIC			N								
3	1379462	BRACKET CROWBAR KIT			1								
4													
5	037-591	CAPACITOR, TANT., 1 MFD, 20V	C2,3	2	2								
6	037-908	CAPACITOR, TANT., 4.7 MFD., 20V	C1,4	2	2								
7													
8	013-678	DIODE, 1A4385	CR1,4	2	2								
9	581-289	DIODE, ZENER, 13V, 1N4743A	VR1,2	2	-								
10	581-809	DIODE, ZENER, 14V, UZ8714	VR1,2	2	2								
11	066-812	RESISTOR, CARBON FILM, 100 OHMS, 1/4W, 5%	R3,7	2	2								
12	066-813	RESISTOR, CARBON FILM, 150 OHMS, 1/4W, 5%	R4,8	2	2								
13	066-859	RESISTOR, CARBON FILM, 240 OHMS, 1/4W, 5%	R5	1	1								
14	066-665	RESISTOR, CARBON FILM, 1K OHMS, 1/4W, 5%	R6	1	1								
15	066-024	RESISTOR, METAL FILM, 243 K OHMS, 1/4W, 1%	R1,2,9,10	4	4								
16													
17	014-780	TRANSISTOR, NPN MPS 6514	Q1,2	2	2								
18	014-781	TRANSISTOR, PNP MPS 6518	Q3,4,5	3	3								
19	580-950	SCR, C122A	CR2,3	2	2								
20													
21	602-044	JUMPER, SHORTING PLUG		2	2								
22	143-981	JACK, P.C. TIP		6	6								
23													
24	230-439	SPACER, THD., SWAGE, #4-40 X .188 LG		2	2								
25	473-326	SCREW, SEMS, PAN HD. X REC., 4-40 X .375 LG		2	2								
26	501-169	WASHER, PLAIN, SM. PATTERN, #4		2	2								
27	471-060	SCREW, MACH., PAN HD. X-REC, 4-40 X .250 LG		2	2								
28	492-008	NUT, HEX, FINISHED, 4-40 UNC-2B, PLAIN THD.		2	2								
29	501-562	WASHER, PLAIN, NYLON, #4		2	2								
30													
31													
32													
33													
34													
35													
36													
37													













Assembly No. 1400678-02B. 12 Volt Crowbar PWA

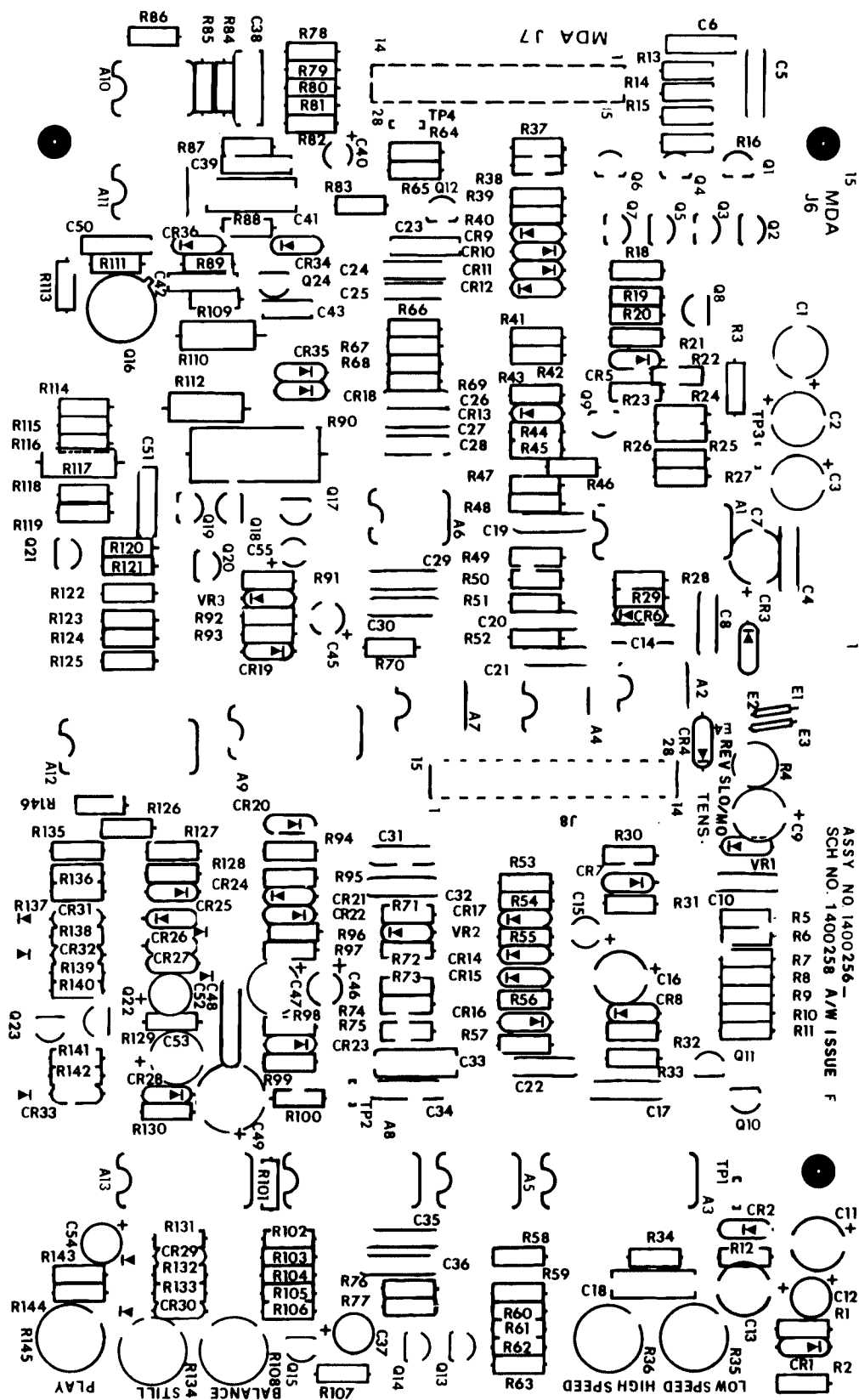
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER									
				-01	-02	-03	-04						
1	1367615-01	MOUNTING BLOCK, CONNECTOR		1	1	1	1						
2	1400508-01	BRACKET, MDA		1	1	1	1						
3	1400507-01	BRACKET, MDA CONNECTOR		1	1	1	1						
4	1400506-01	HEATSINK, MDA		1	1	1	1						
5	1400406-06	PWA, MDA ELECTRONICS		1	-	-	-						
6	1400406-05	PWA, MDA ELECTRONICS			1	-	-						
7													
8	1400504-01	PWA, MDA DRIVER		1	-	-	-						
9	6000035-01	LABEL, SERIALIZED		1	1	1	1						
10	1400404	HARNESS		REF	REF	REF	REF						
11	014-614	TRANSISTOR, SILICON, NPN, CD461, 1N3715 Q002		1	1	1	1						
12	014-627	TRANSISTOR, SILICON, PNP, 2N3791 Q003		1	1	1	1						
13	580-244	TRANSISTOR, SILICON, NPN, 2N5301 Q005			1	1	1						
14	014-703	INSULATOR, TRANSISTOR, TO-3		6	6	6	6						
15	580-991	TRANSISTOR, SILICON, NPN, 2N3055A Q005		1	-	-	-						
16	041-273	RESISTOR, COMP., 270 OHM, 1/2W, 5% R005,006		2	2	2	2						
17	041-334	RESISTOR, COMP, 200 OHM, 1/2W, 5% R008		1	1		1						
18	043-628	RESISTOR, WW, 5 OHM, 5W, 5% R007		1	-	-	-						
19	059-099	RESISTOR, WW., .2 OHM, 10W, 3% R002,004		2	2	2	2						
20	059-407	RESISTOR, WW., .25 OHM, 10W, 3% R001,003		2	2	2	2						
21													
22	064-116	CAPACITOR, CER., .01uF, 50V, -20% +80% C001		1	-	-	-						
23													
24	087-388	COMPOUND, HEATSINK		A/R	A/R	A/R	A/R						
25													
26	166-225	CONTACT, SOCKET, 16 AWG REF: J1-4		A/R	A/R	A/R	A/R						
27	166-227	CONTACT, PIN, 16-18 AWG REF: J5		A/R	A/R	A/R	A/R						
28	167-023	CONNECTOR, RECT, RECP, 6 POS J5		1	1	1	1						
29	167-451	CONNECTOR, RECT, RECP, 3 POS J1-4		4	4	4	4						
30													
31	280-209	SPACER, HINGE, 1"		2	2	2	2						
32	280-407	SPACER, ROUND, 6-32 X 1" LG		2	2	2	2						
33	280-981	SPACER, ROUND, 6-32 X 2" LG		2	2	2	2						
34	290-187	BRACKET, 90		2	2	2	2						
35	302-335	STRAP, CABLE		A/R	A/R	A/R	A/R						
36													
37	470-018	SCREW, CAP., SOCKET, HD, 6-32 X 3/8		8	8	8	8						

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA	CODE IDENT NO. 92739	LIST OF MATERIALS	LM- 1400405 SHEET 2	REV P									
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01	-02	-03	-04								
38	471-061	SCREW, SEMS, PAN HD, XREC, 4-40 X 5/16			11		11								
39	472-113	SCREW, MACH, PAN HD, XREC, 2-56 X 1/4			14		14								
40	473-327	SCREW, PAN HD, XREC, 4-40 X 1/2			1		1								
41	475-062	SCREW, SEMS, PAN HD, XREC, 6-32 X 5/8			12		12								
42	475-085	SCREW, SEMS, PAN HD, XREC, 6-32 X 5/16			4		4								
43															
44	496-004	NUT, KEP, 4-40 CAPTIVE WASHER			2		2								
45	501-008	WASHER, FLAT, #4			3		3								
46	501-155	WASHER, FRAT, #2			6		6								
47	501-188	WASHER, PLAIN #6 SMALL PATTERN			4		4								
48															
49	502-001	WASHER, LOCK, SPRING, #2			14		14								
50	502-002	WASHER, LOCK, SPRING, #4			9		9								
51	502-374	WASHER, LOCK, SPRING, #6			8		8								
52															
53	580-510	SOCKET, TRANSISTOR, MTG., TO-3			6		6								
54	580-465	TRANSISTOR, SILICON, NPN, MJ4033	Q001,004		2		2								
55	580-785	TRANSISTOR, SILICON, PNP, 2N4901	Q006		1		1								
56	579-095	TRANSISTOR, SILLICON, NPN, MJ11016													
57															
58															
59		WIRE, STRANDED, 24 AWG		A/R	A/R		A/R		A/R						
60		WIRE, STRANDED, 20 AWG		A/R	A/R		A/R		A/R						
61		WIRE, STRANDED, 16 AWG		A/R	A/R		A/R		A/R						
62															
63	615-021	WIRE, BARE, SOLID, 12 AWG		A/R	A/R		A/R		A/R						
64															
65															
66	600-196	TUBING, TEFLON, 18 AWG	REF: R007	A/R	A/R		A/R		A/R						
67															
68															
69	582-167	INSULATOR, TRANSISTOR	REF: Q202-205	4	4		4		4						
70	580-888	INSULATOR, TRANSISTOR	REF: Q201,206,207	3	3		3		3						
71	582-166	WASHER, COMPRESSION	REF: Q202-205	4	4		4		4						
72	582-168	BUSHING, SHLDR	REF: Q201,206,207	3	3		3		3						
73															
74	1400265-02	PWA, MDA DRIVER			1		1		1						
75	1400256-03	P.W.A. MDA ELECTRONICS							1						
76	1400258	SCHEMATIC,MDA ASSEMBLY							J						
77															
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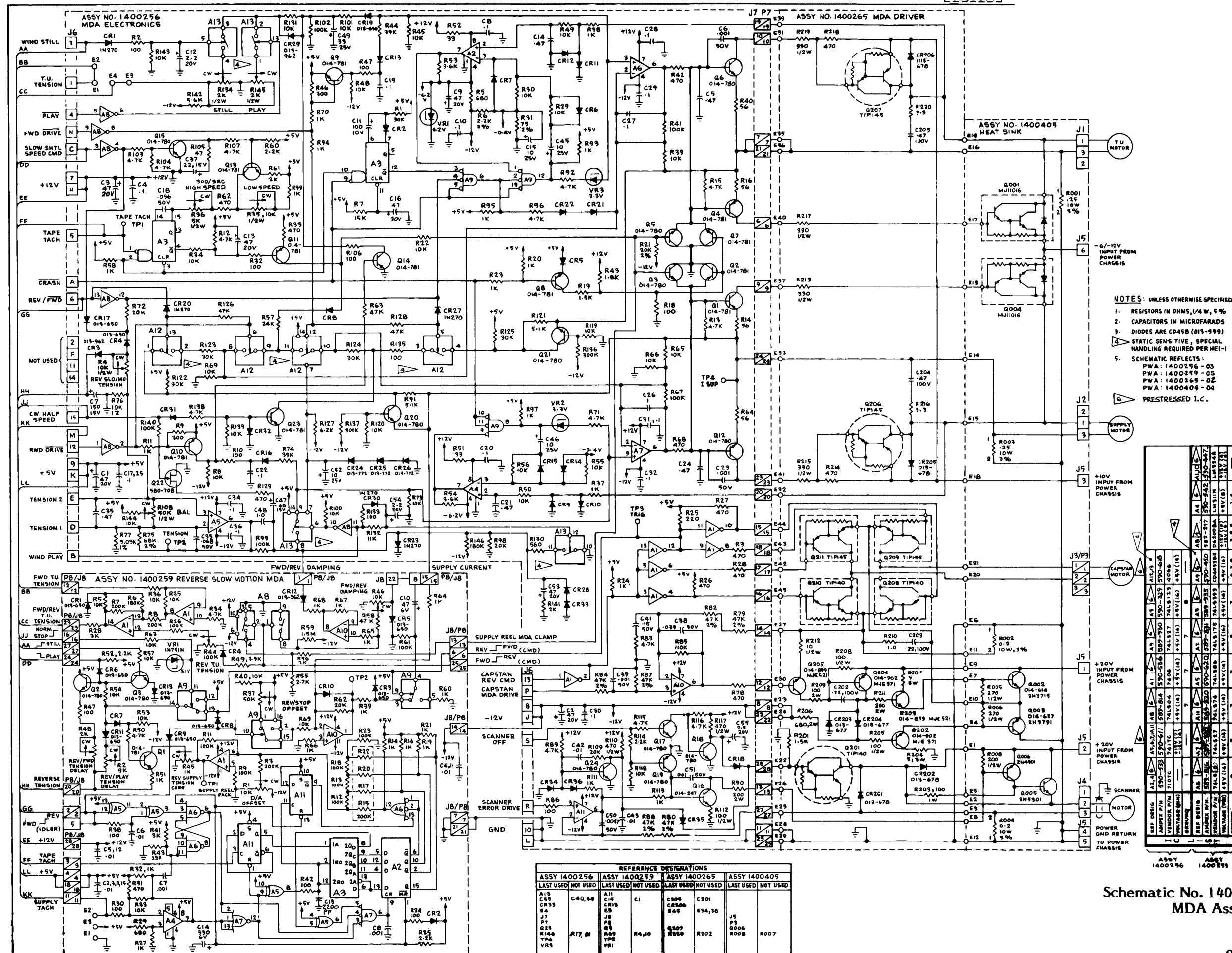
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-0	-02	-03							
1													
2	1400258	SCHEMATIC		E	H	J							
3	1400259-03	PWA, REVERSE SLOW MOTION MDA		1	-	-							
4	030-095	CAPACITOR, CER., MONO, 0.1uF, 50V, 20% C4,8,10,17,19,20,22, 25-32,34,36		17	17	17							
5	030-966	CAPACITOR, CER., .01uF, 100V, 10% C43		1	1	1							
6	030-101	CAPACITOR, CER., MONO, .47uF, 25V, 20% C5,14,21,24,35		5	5	5							
7	030-094	CAPACITOR, CER., MONO, 1.0uF, 25V, 20% C48		1	1	1							
8	055-166	CAPACITOR, MYLAR, .001uF, 50V, 5% C6,23,39,51		4	4	4							
9	055-131	CAPACITOR, MYLAR, .039uF, 50V, 5% C38		1	1	1							
10	035-853	CAPACITOR, MYLAR, .056uF, 50V, 5% C18		1	1	1							
11	035-883	CAPACITOR, MYLAR, .068uF, 50V, 5% C33		1	1	1							
12	055-712	CAPACITOR, MYLAR, .15uF, 50V, 5% C41		1	1	1							
13	035-734	CAPACITOR, MYLAR, .01uF, 50V, 5% C42		1	1	1							
14	037-887	CAPACITOR, TANT, .47uF, 35V C40		1	-	-							
15	037-790	CAPACITOR, TANT, 2.2uF, 20V C55,54,12		3	3	3							
16	1400259-05	PWA, REVERSE SLOW MOTION MDA			1	1							
17	037-812	CAPACITOR, TANT, 10uF, 25V C15,45,46,52		4	4	4							
18	037-954	CAPACITOR, TANT, 22uF, 15V C37		1	1	1							
19	037-892	CAPACITOR, TANT, 47uF, 20V C1-3,9,13,16,53		7	7	7							
20	035-730	CAPACITOR, MYLAR, .0047uF, 50V, 5% C50		1	1	1							
21	037-894	CAPACITOR, TANT, 100uF, 10V C11		1	1	1							
22	037-946	CAPACITOR, TANT, 33uF, 25V C49		1	1	1							
23	037-957	CAPACITOR, TANT, 68uF, 15V C47		1	1	1							
24	037-960	CAPACITOR, TANT, 150uF, 15V C7		1	1	1							
25	013-166	DIODE, ZENER, 3.3V, CD32, 1W 1/4W VR2,3		2	2	2							
26	013-188	DIODE, GERMANIUM, 1N270 CR1,20,23,27,30		5	5	5							
27	013-257	DIODE, ZENER, 6.2V, CD32, 1W 1/4W VR1		1	1	1							
28	013-599	DIODE, SWITCHING, CD458, 1/2W CR2,5,6-16,18,21,22,28, 31-36		23	23	23							
29	013-772	DIODE, STABISTOR, 0.64V, 1N816 CR24,25,26		3	3	3							
30													
31	013-650	DIODE, GERMANIUM, CD498 CR4,17,19		3	3	3							
32	013-962	DIODE, HOT CARRIER, 50V, 1/2W CR3,29		2	2	2							
33	014-247	TRANSISTOR, CD38, 1/2W Q16		1	1	1							
34	014-780	TRANSISTOR, MPS65 Q3,5,6,12,24,15,17-21		11	11	11							
35	014-781	TRANSISTOR, MPS6518 Q1,2,4,7-11,13,23,14		11	11	11							
36													
37													

AMPEX		CODE IDENT NO. 92739		LIST OF MATERIALS		LM-1400256		REV L	
PART NUMBER		DESCRIPTION		REF DESIG		QTY REQD PER DASH NUMBER			
ITEM NO.						-01	-02	-03	
38	580-708	TRANSISTOR, P1086E	Q22			1	1	1	
39									
40	066-663	RESISTOR, C.F., 220 OHMS, 1/4W, 5%	R25			1	1	1	
41	066-834	RESISTOR, C.F., 33 OHMS, 1/4W, 5%	R51,52			2	2	2	
42	066-938	RESISTOR, C.F., 47 OHMS, 1/4W, 5%	R105			1	1	1	
43	076-003	RESISTOR, C.F., 56 OHMS, 1/4W, 5%	R14,16,40,64			4	4	4	
44	066-815	RESISTOR, C.F., 300 OHMS, 1/4W, 5%	R9, 46			2	2	2	
45	066-818	RESISTOR, C.F., 470 OHMS, 1/4W, 5%	R3,26,27,28,33,42,62,68,78,129			10	10	10	
46	066-839	RESISTOR, C.F., 560 OHMS, 1/4W, 5%	R130			1	1	1	
47	066-840	RESISTOR, C.F., 680 OHMS, 1/4W, 5%	R5			1	1	1	
48	066-665	RESISTOR, C.F., 1K OHMS, 1/4W, 5%	R11,20,23,24,70,37,38,58,59,93-95,97,113,114			5	5	5	
49	066-812	RESISTOR, C.F., 100 OHMS, 1/4W, 5%	R2,10,18,32,47,106,86,133,135			9	9	9	
50	066-824	RESISTOR, C.F., 1.5K OHMS, 1/4W, 5%	R19			1	1	1	
51									
52	066-675	RESISTOR, C.F., 1.8K OHMS, 1/4W, 5%	R43			1	1	1	
53	066-826	RESISTOR, C.F., 2K OHMS, 1/4W, 5%	R61,141			2	2	2	
54	066-689	RESISTOR, C.F., 2.2K OHMS, 1/4W, 5%	R60,114			2	2	2	
55	066-863	RESISTOR, C.F., 3.6K OHMS, 1/4W, 5%	R53, 54			2	2	2	
56	066-668	RESISTOR, C.F., 4.7K OHMS, 1/4W, 5%	R12,13,15,71,88,92,96,103,104,107,115,116,138, 89			14	14	14	
57									
58	066-830	RESISTOR, C.F., 10K OHMS, 1/4W, 5%	R8,22,29,30,34,39,45,48,49,50,55,56,65,66,69,73,100,101,118-120,131,139,143,144					25	
59	066-842	RESISTOR, C.F., 5.1K OHMS, 1/4W, 5%	R91,121			2	2	2	
60	066-843	RESISTOR, C.F., 6.2K OHMS, 1/4W, 5%	R127			1	1	1	
61	066-670	RESISTOR, C.F., 9.1K OHMS, 1/4W, 5%	R76			1	1	-	
62	066-830	RESISTOR, C.F., 10K OHMS, 1/4W, 5%	R8,22,29,30,34,39,45,48,49,50,55,56,65,66,69,73,77,100,101,118-120,131,139,143,144			26	26	-	
63									
64	066-856	RESISTOR, C.F., 15K OHMS, 1/4W, 5%	R7			1	1	1	
65	066-831	RESISTOR, C.F., 11K OHMS, 1/4W, 5%	R132			1	1	1	
66	066-873	RESISTOR, C.F., 20K OHMS, 1/4W, 5%	R72,98, 109			3	3	3	
67	062-982	RESISTOR, M.F., 9.09K OHMS, 1/4W, 1%	R77					1	
68	062-983	RESISTOR, M.F., 10K OHMS, 1/4W, 1%	R76					1	
69	066-846	RESISTOR, C.F., 30K OHMS, 1/4W, 5%	R1, 122-125			5	5	5	
70	066-860	RESISTOR, C.F., 39K OHMS, 1/4W, 5%	R44,74			2	2	2	
71	066-717	RESISTOR, C.F., 47K OHMS, 1/4W, 5%	R63,126,128			3	3	3	
72	066-845	RESISTOR, C.F., 24K OHMS, 1/4W, 5%	R57			1	1	1	
73	076-047	RESISTOR, C.F., 110K OHMS, 1/4W, 5%	R85			1	1	1	
74	076-051	RESISTOR, C.F., 300K OHMS, 1/4W, 5%	R136, 137			2	2	2	
75									
76	066-718	RESISTOR, C.F., 5.6K OHM, 1/4W, 5%	R142			1	1	1	
77	076-011	RESISTOR, C.F., 180K OHMS, 1/4W, 5%	R146			1	1	1	
78	066-849	RESISTOR, C.F., 100K OHMS, 1/4W, 5%	R41,67,99,102,140			5	5	5	
79	041-003	RESISTOR, COMP, 100 OHMS, 1/2W, 5%	R112			1	1	1	
80	041-587	RESISTOR, COMP, 200 OHMS, 2W, 5%	R90			1	1	1	
81	041-336	RESISTOR, COMP, 470 OHMS, 1/2W, 5%	R110,117			2	2	2	
82									

AMPEX		CODE IDENT NO. 92739		LIST OF MATERIALS		LM-1400256		SHEET 3 of 4		REV				
ITEM NO.	PART NUMBER	DESCRIPTION		REF DESIG	QTY REQD PER DASH NUMBER									
					-01	-02	-03							
83	057-069	RESISTOR, M. F., 75 OHMS, 1/4W, 2% R31			1	1	1							
84														
85	057-104	2.2K OHMS R6			1	1	1							
86	057-112	4.7K OHMS, R81			1	-	-							
87						1	1							
88	057-127	20K OHMS, R21			1	1	1							
89	057-136	47K OHMS, R79,80,82,84, ,87, 88			6	6	6							
90	057-140	RESISTOR,M.F, 68K OHMS, 1/4W, 2% R75			1	1	1							
91														
92														
93														
94	058-995	RESISTOR, VAR., CER., 2K OHMS, 1/2W, 20% R134,145			2	2	2							
95	058-997	RESISTOR, VAR., CER., 5K OHMS, 1/2W, 20% R36			1	1	1							
96	058-998	RESISTOR, VAR., CER., 10K OHMS, 1/2W, 20% R35			1	1	1							
97	075-002	RESISTOR, VAR., CER., 50K OHMS, 1/2W, 20% R108			1	1	1							
98														
99	058-611	RESISTOR, VAR., CER., 10K OHMS, 1/2W, 20% R4			1	1	1							
100														
101	590-553	INTEGRATED CIRCUIT, 710TC  A2,4			2	2	2							
102	590-611	INTEGRATED CIRCUIT, 741TC  A5,6,7,10,11			5	5	5							
103	589-814	INTEGRATED CIRCUIT, 74LS04  A8			1	1	1							
104	590-536	INTEGRATED CIRCUIT, 7406  A1			1	1	1							
105	589-930	INTEGRATED CIRCUIT, 74LS27  A9			1	1	1							
106	590-329	INTEGRATED CIRCUIT, 74LS123  A3			1	1	1							
107	590-618	INTEGRATED CIRCUIT, 4066   A12,13			2	2	2							
108														
109														
110	167-068	HEADER, RECEPTACLE 28 POS. J8			1	1	1							
111	135-025	HEADER ASSEMBLY, 28 PIN J7			1	1	1							
112	280-998	MOUNTING PAD, TRANSISTOR, TO-5 REF: Q16			1	1	1							
113	103307-01	STANDOFF REF: R90			2	2	2							
114														
115	187-259	TEST LUG TP1-4			4	4	4							
116	472-454	SCREW, X REC, PAN HD, 2-56 X .375 LG			2	2	2							
117	501-184	WASHER, PLAIN, #2			2	2	2							
118	615-004	WIRE, BARE 24 AWG REF: E1-2,E3-4			A/R	A/R	A/R							
119	600-232	SLEEVEING, TEFLON			A/R	A/R	A/R							
120														
121														
		NOTES:												
		 PRESTRESSED IC.												
		 STATIC SENSITIVE; SPECIAL HANDLING REQUIRED												

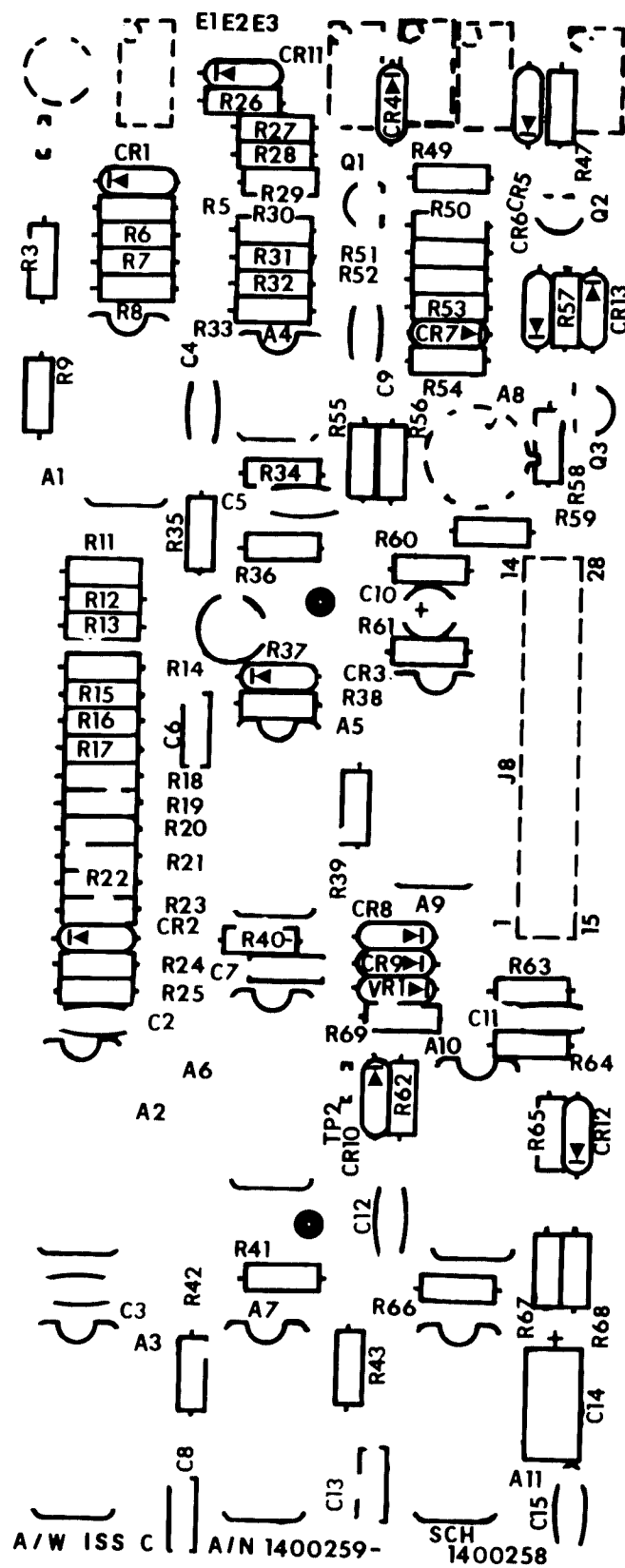


Assembly No. 1400256-03L. MDA Electronics PWA



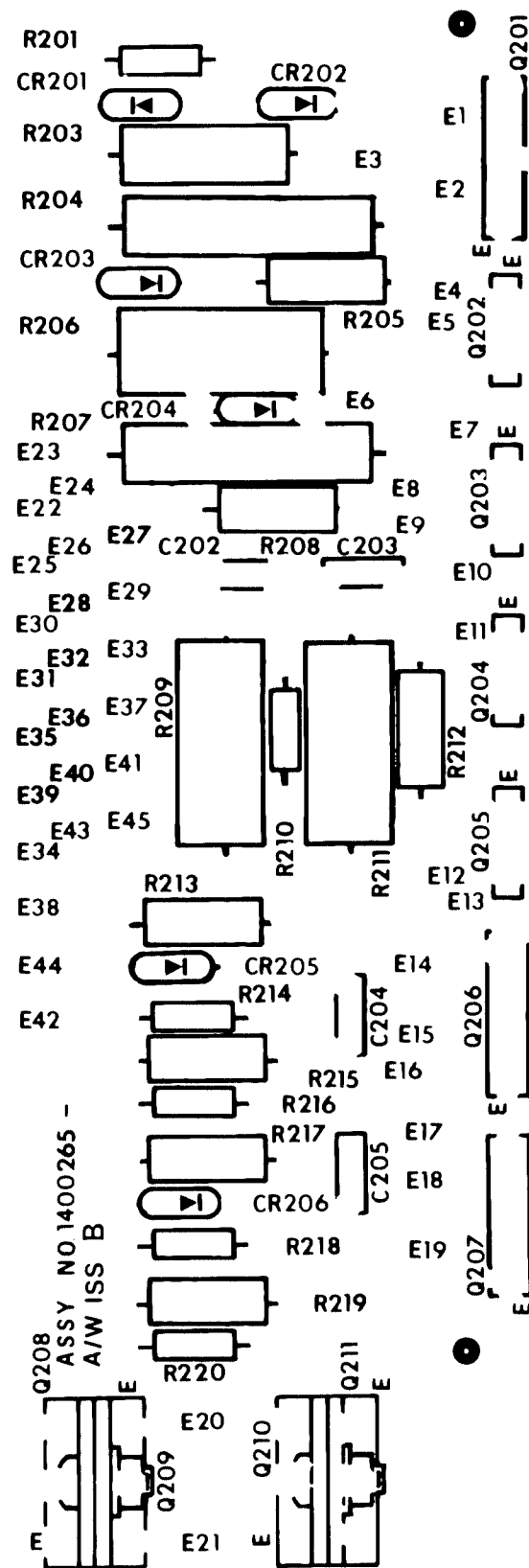
Schematic No. 1400258J.
MDA Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02	-03	-04	-05					
1													
2													
3	1400258	SCHEMATIC MDA ASSY	(+)	D	E	G	J						
4													
5	013-358	DIODE, ZENER, 5.1V, 1W, 5% VR1		1	1	1		1					
6	013-599	DIODE, SWITCHING, 1N4544 CR2, 4, 7, 10		4	4	4	4	4					
7	013-650	DIODE, GER, 1N270 CR1, 3, 5, 6, 8, 9, 11, 13		8	8	8	8	8					
8	013-962	DIODE, HOT CARRIER, 500V, 1W, 5% CR12		1	1	1		1					
9													
10													
11	014-780	TRANSISTOR, SILICON NPN MPS6514 Q2, 3		2	2	2	2	2					
12	014-781	TRANSISTOR, SILICON PNP MPS6518 Q1		1	1	1		1					
13													
14	064-490	CAPACITOR, CER., .001UF, 100V C8		1	1	1		1					
15	030-966	CAPACITOR, CER., .01UF, 100V C6, 7, 13		3	-	-	-						
16	064-116	CAPACITOR, CER., DISC., .01UF 50V C2-5, 9, 11, 12, 15		8	8	8	8	8					
17	037-298	CAPACITOR, TANT., DIP, 47UF, 6V C10		1	1	1		1					
18	037-973	CAPACITOR, TANT, DIP, 330UF, 6V C14		1	1	1		1					
19	030-966	CAPACITOR, CER., .01UF, 100V C6, 7, 13				3	-	-					
20	066-717	RESISTOR, C.F., 47KOHMS, 1/4W, 5% R58		1	1	1		1					
21	066-812	100 OHMS, 1/4W, 5% R24, 30, 38, 42, 47		5	5	5	5	5					
22	066-818	470 OHMS, 1/4W, 5% R31		1	1	1		1					
23	066-840	680 OHMS, 1/4W, 5% R29		1	1	1		1					
24	066-665	1K OHMS, 1/4W, 5% R14, 16, 19, 21, 27, 32, 39, 51, 60, 64-68		14	14	14	14	14					
25	066-826	2K OHMS, 1/4W, 5% R43, 56		2	2	-	-	-					
26	066-689	2.2KOHMS, 1/4W, 5% R25, 52		2	2	2	2	2					
27	066-666	2.7KOHMS, 1/4W, 5% R55		1	1	1		1					
28	066-667	3KOHMS, 1/4W, 5% R28, 41		2	2	2	2	2					
29	066-827	3.9KOHMS, 1/4W, 5% R49		1	1	1		1					
30	066-668	4.7KOHMS, 1/4W, 5% R34, 50		2	2	2	2	2					
31	066-830	10KOHMS, 1/4W, 5% R5, 33, 35, 36, 40, 53, 54, 57, 63, 69		10	10	10	10	10					
32	066-873	20KOHMS, 1/4W, 5% R62		1	1	1		1					
33	066-849	100KOHMS, 1/4W, 5% R9, 11, 12, 13, 18, 23, 26, 61		8	8	8	8	8					
34	076-011	180KOHMS, 1/4W, 5% R6		1	1	1		1					
35	066-853	200KOHMS, 1/4W, 5% R3, 7, 8, 15, 17, 20, 22		7	7	7	7	7					
36	076-014	1.5MOHMS, 1/4W, 5% R59		1	1	1		1					
37	058-601	RESISTOR, VAR., 1KOHMS, 1/2W, 10% R45		1	1	1		1					








Assembly No. 1400259-05J. MDA Reverse Slow Motion PWA

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				01	02										
1															
2	1400258	SCHEM.			J										
3															
4															
5	064-307	CAPACITOR, CER., .22UF, 100V	C202, 203	2	2										
6	064-309	CAPACITOR, CER., .47UF, 100V	C204, 205	2	2										
7	013-677	DIODE, SILICON, CD517	CR203, 204	2	2										
8	013-678	DIODE, SILICON, CD451	CR201, 202, 205, 206	4	4										
9	076-723	RESISTOR, C.F., 1 OHM, 1/4W, 5%	R210	1	1										
10	076-024	3.3 OHMS, 1/4W, 5%	R216, 220	2	2										
11	066-818	470 OHMS, 1/4W, 5%	R214, 213	2	2										
12	066-824	RESISTOR, C.F., 1.5KOHMS, 1/4W, 5%	R201	1	1										
13															
14	041-002	RESISTOR, COMP., 10 OHMS, 1/2W, 5%	R212	1	1										
15	041-003	100 OHMS, 1/2W, 5%	R205, 208	2	2										
16	041-329	330 OHMS, 1/2W, 5%	R213, 215, 217, 219	4	4										
17	041-096	100 OHMS, 1W, 5%	R203	1	1										
18	041-607	100 OHMS, 2W, 5%	R209	1	1										
19	041-587	200 OHMS, 2W, 5%	R211	1	1										
20	041-470	RESISTOR, COMP., 680 OHMS, 2W, 5%	R206	1	1										
21	043-741	RESISTOR, W.W., 5 OHMS, 3W, 5%	R204, 207	2	2										
22	014-899	TRANSISTOR, SILICON, NPN, MJE521	Q203, 205	2	2										
23	014-902	TRANSISTOR, SILICON, PNP, MJE371	Q202, 204	2	2										
24	580-857	TRANSISTOR, SILICON, NPN, TIP140	Q201, 208, 210	3	3										
25	580-858	TRANSISTOR, SILICON, PNP, TIP145	Q206, 207, 209, 211	4	4										
26	103307-01	SPACER, .25 LG	REF: R204, 206, 207, 209, 211	10	10										
27	087-388	COMPOUND, SILICON		A/R	A/R										
28	167-446	CONNECTOR, PART, HOUSING, 28 POS.	P7	1	1										
29	167-445	CONNECTOR, PART, KEY	REF: P7-1	1	1										
30	167-444	CONTACT, SPRING 24-20 AWG	REF: P7	A/R	A/R										
31															
32															
33															
34	496-004	NUT, HEX, 4-40		2	2										
35	471-060	SCREW, MACH., PAN HD, 4-40 X .250 LG		2	2										
36	302-335	STRAP, CABLE		A/R	A/R										
37		WIRE, STRANDED, 26 AWG		A/R	A/R										

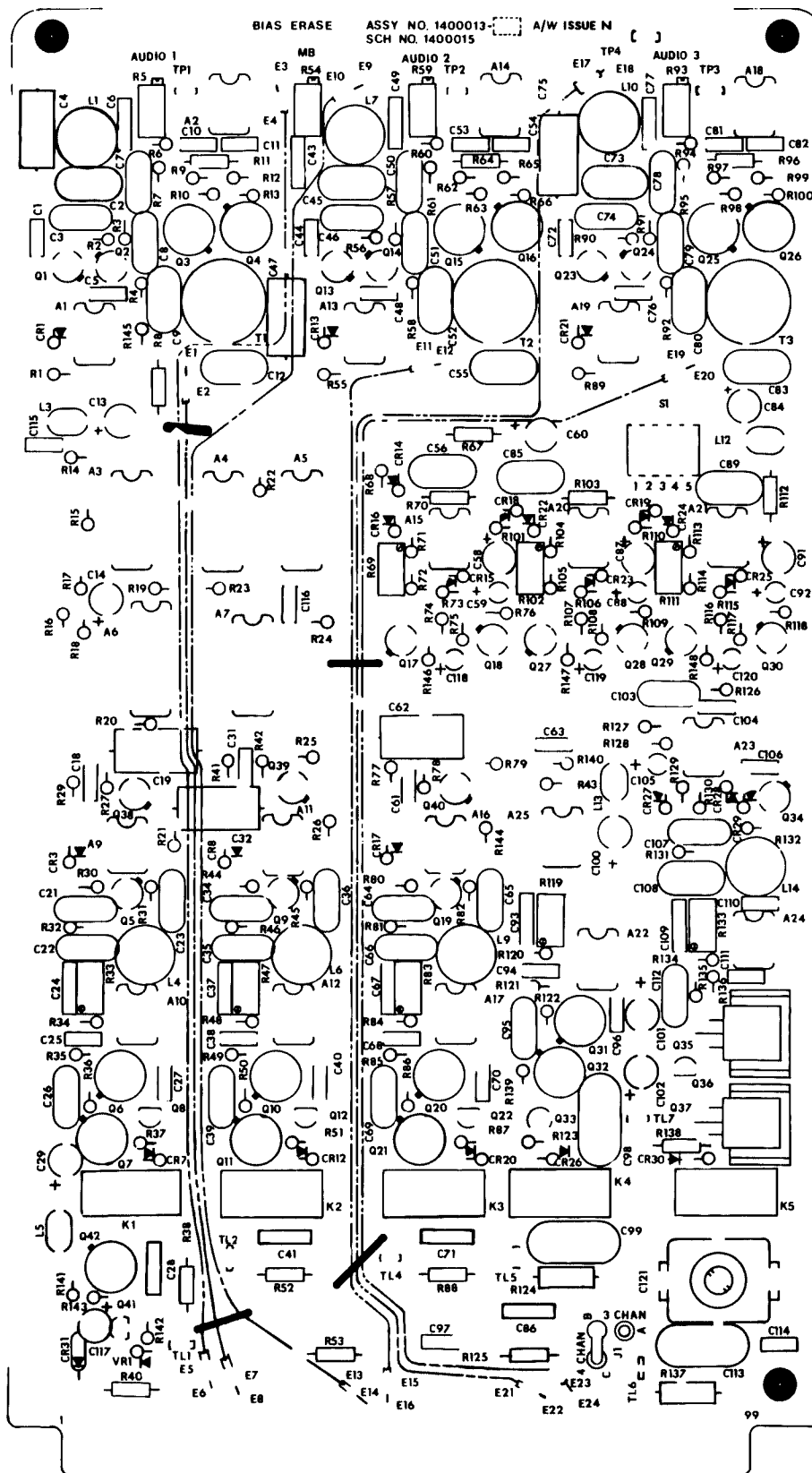


Assembly No. 1400265-02H. MDA Driver PWA

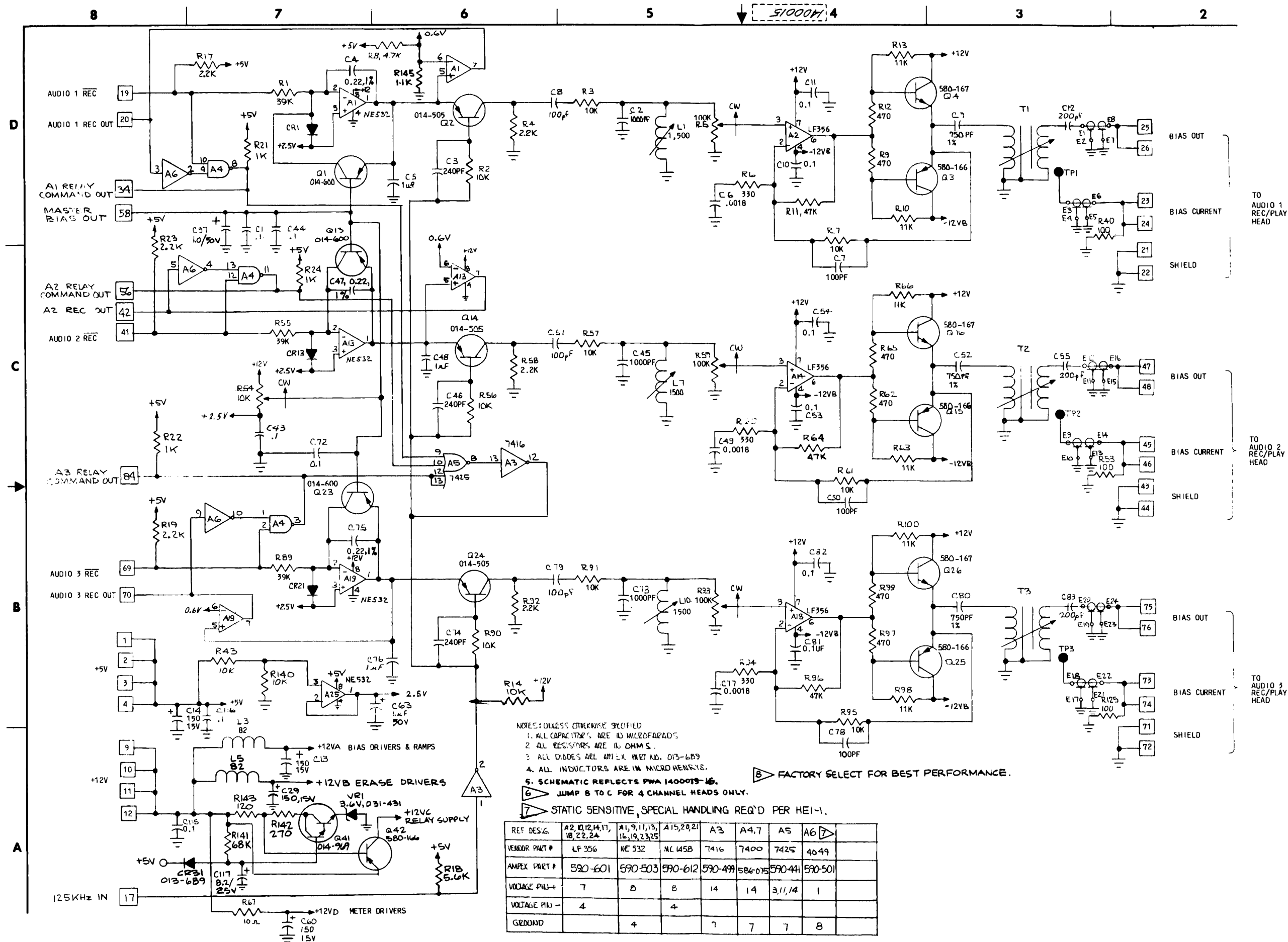
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER												
				-1	-15	-16	-07	-08	-09	-10	-11	-12	-13			
1																
2																
3																
4	1400015	SCHEMATIC		S	T	U	H	J	K	L	M	F				
5	056-293	CAPACITOR, MICA, 5100pF, 500V, 5% C86		1	1	-										
6	038-230	CAPACITOR, VAR., 390-1400pF, 175V C121		1	1	1					1	1				
7	1379256-01	HEAT SINK (REF: Q35,37)		2	2	2	2	2	2	2	2	2	2			
8	1379352-AA	TRANSFORMER, VAR., 6400uH T1,2,3		3	3	3	3	3	3	3	3	3	3			
9	1400003-01	SHIELD		1	1	1	1	1	1	1	1	1	1			
10	1400004-01	HANDLE		1	1	1	1	1	1	1	1	1	1			
11	1400005-01	LABEL		1	1	1	1	1	1	1	1	1	1			
12	030-014	CAPACITOR, VAR., 450-1390pF C121		-	-	-				1	-	-	-			
13	064-307	CAPACITOR, CER., 0.22uF, 100V C4,47,75		3	-	-	3	3	3	3	3	3	3			
14	064-062	CAPACITOR, CER., 0.1uF, 100V C1,10,11,25,27,38,40,43,44,53,54,68,70,72,81,82,94,96 110,111,114,115,116		23	23	23	23	23	23	23	23	23	23			
15	C34-994	CAPACITOR, MICA, 2500pF, 300V, ±5% C113		1	1	1				1	1	1	1			
16	C34-388	CAPACITOR, MICA, 3300pF, 500V, ±5% C113				-	1	1	1							
17	034-747	CAPACITOR, MICA, 3600pF, 500V, ±5% C113					1	1	1							
18	037-790	CAPACITOR, TANT, 2.2uF, 20V, 20% C118-120		3	3	3			3	3	3	3	3			
19	064-314	CAPACITOR, CER., 1.0uF, 50V C5,18,19,31,32,48,61-63,76,97,104,106		-	-	-	13	13	13	13	13	13	13			
20	034-177	CAPACITOR, MICA, 100pF, 500V C7,8,21,34,50,51,64,78,79,107		10	10	10	10	10	10	10	10	10	10			
21	034-961	CAPACITOR, MICA, 120pF, 500V C112		1	1	1	1	1	1	1	1	1	1			
22	034-937	CAPACITOR, MICA, 160pF, 500V C26,39,69,95		4	4	4	4	4	4	4	4	4	4			
23	034-286	CAPACITOR, MICA, 200pF, 500V C12,55,83		3	3	3	3	3	3	3	3	3	3			
24	034-335	CAPACITOR, MICA, 240pF, 500V C3,23,36,46,65,74,103		7	7	7	7	7	7	7	7	7	7			
25	034-237	CAPACITOR, MICA, 750pF, 500V, ±1% C9,52,80		3	3	3	3	3	3	3	3	3	3			
26	034-950	CAPACITOR, MICA, 1000pF, 500V, ±5% C2,22,35,45,66,73,108		7	7	7	7	7	7	7	7	7	7			
27	034-388	CAPACITOR, MICA, 3300pF, 500V, ±5% C113		-	-	-	-	-	-	-	-	-	-			
28	034-370	CAPACITOR, MICA, 6800pF, 300V, ±5% C99		1	1	1	1	1	1	1	1	1	1			
29	034-747	CAPACITOR, MICA, 3600pF, 300V, ±5% C113		-	-	-	-	-	-	-	-	-	-			
30	034-713	CAPACITOR, MICA, 7500pF, 100V, 1% C28,41,71,98		-	-	-	4	-	-	-	-	-	-			
31	034-713	CAPACITOR, MICA, 7500pF, 100V, 1% C28,41,98		3	3	-	3	3	3	3	3	3	3			
32	055-604	CAPACITOR, MYLAR, .0018uF, 50V C6,49,77		3	3	3	3	3	3	3	3	3	3			
33	035-730	CAPACITOR, MYLAR, .0047uF, 50V C24,37,67,93,109		5	5	5	5	5	5	5	5	5	5			
34	069-112	CAPACITOR, MYLAR, .082uF, 50V C56,85,89		3	3	3	3	3	3	3	3	3	3			
35		CAPACITOR, MICA, 6800pF, 100V, 1% C71		1	1	-	1	1	1	1	1	1	1			
36	037-948	CAPACITOR, TANT, 68uF, 25V C101,102		-	-	-	-	-	-	-	-	-	-			

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400013	REV AA											
						SHEET 2												
ITEM NO.	PART NUMBER	DESCRIPTION			REF DESIG	QTY REQD PER DASH NUMBER												
						-14	-15	-16	-17	-18	-19	-20	-21	-22	-23			
37	037-929	CAPACITOR, TANT, 3.9uF, 35V C59,88,92			3	3	3	3	3	3	3	3	3	3	3			
38	037-962	CAPACITOR, TANT, 4.7uF, 10V C105			1	1	1	1	1	1	1	1	1	1	1			
39	037-940	CAPACITOR, TANT, 47uF, 35V C101,102			2	2	2	2	2	2	2	2	2	2	2			
40	037-970	CAPACITOR, TANT, 150uF, 6V C58,87,91			3	3	3	3	3	3	3	3	3	3	3			
41	037-960	CAPACITOR, TANT, 150uF, 15V C13,14,29,60,84,100			6	6	6	6	6	6	6	6	6	6	6			
42	037-943	CAPACITOR, TANT, 8.2uF, 25V C117			1	1	1	1	1	1	1	1	1	1	1			
43	013-689	DIODE, SWITCHING, SI, IN3600 ^{SELECT} CR1,3,7,8,12-31			24	24	24	24	24	24	24	24	24	24	24			
44																		
45	013-431	DIODE, ZENER, 3.6V, 1N472 VR1			1	1	1	1	1	1	1	1	1	1	1			
46																		
47	068-079	INDUCTOR, FIXED, 82uH, 5% L3,5,12,13			4	4	4	4	4	4	4	4	4	4	4			
48	541-067	INDUCTOR, VAR., 1500uH, 5% L1,7,10			3	3	3	3	3	3	3	3	3	3	3			
49	051-165	INDUCTOR, VAR., 3300uH, 5% L4,6,9,14			4	4	4	4	4	4	4	4	4	4	4			
50	064-314	CAPACITOR, CER., 1.0uF, 50V, C5,18,31,48,61-63,76,97,104			9	9	9	9	9	9	9	9	9	9	9			
51	064-369	CAPACITOR, CER., .68uF, 10%, 50V C106			1	1	1	1	1	1	1	1	1	1	1			
52	590-601	INTEGRATED CIRCUIT, LF356  A2,10,12,14,17,18,22,24			8	8	8	8	8	8	8	8	8	8	8			
53	590-503	NE532  A1,9,11,13,16,19,23,25			8	8	8	8	8	8	8	8	8	8	8			
54	590-612	MC1458 A15,20,21			3	3	3	3	3	3	3	3	3	3	3			
55	590-499	7416 A3			1	1	1	1	1	1	1	1	1	1	1			
56	590-441	7425  A5			1	1	1	1	1	1	1	1	1	1	1			
57	586-075	7400 A4,7			2	2	2	2	2	2	2	2	2	2	2			
58	590-501	INTEGRATED CIRCUIT, 4049  A6 			1	1	1	1	1	1	1	1	1	1	1			
59																		
60	066-668	RESISTOR, C.F., 4.7K OHMS, 1/4W, 5% R8			1	1	1	1	1	1	1	1	1	1	1			
61	020-543	RELAY, 12V K1-5			5	5	5	5	5	5	5	5	5	5	5			
62	020-407	RELAY, MOUNTING PAD REF: K1-5			5	5	5	5	5	5	5	5	5	5	5			
63	066-717	RESISTOR, C.F., 47K OHMS, 1/4W, 5% R11,64,96			3	3	3	3	3	3	3	3	3	3	3			
64	066-501	RESISTOR, C.F., 1.1K OHMS, 1/4W, 5% R144,145			2	2	2	2	2	2	2	2	2	2	2			
65																		
66	066-810	RESISTOR, C.F., 10 OHMS, 1/4W, 5% R67			1	1	1	1	1	1	1	1	1	1	1			
67	066-812	RESISTOR, C.F., 100 OHMS, 1/4W, 5% R40,53,125			3	3	3	3	3	3	3	3	3	3	3			
68	066-555	RESISTOR, C.F., 13K OHMS, 1/4W, 5% R146-148			3	3	3	3	3	3	3	3	3	3	3			
69	064-314	CAPACITOR, CER., 1.0uF, 50V C5,18,31,48,61-63,76,97,104,106			-	-	-	-	-	-	-	-	-	-	-			
70	055-808	CAPACITOR, POLYCARBONATE, .22uF, 100V, 1% C19,32,62			3	3	3	3	3	3	3	3	3	3	3			
71	055-808	CAPACITOR, POLYCARBONATE, .22uF, 100V, 1% C4,19,32,47,62,75			6	6	6	6	6	6	6	6	6	6	6			
72	066-534	RESISTOR, C.F., 330 OHMS, 1/4W, 5% R6,34,48,60,84,94,120,134			8	8	8	8	8	8	8	8	8	8	8			
73	066-564	RESISTOR, C.F., 470 OHMS, 1/4W, 5% R9,12,62,65,97,99			6	6	6	6	6	6	6	6	6	6	6			
74	066-541	RESISTOR, C.F., 1K OHMS, 1/4W, 5% R21,22,24,75,108,117			6	6	6	6	6	6	6	6	6	6	6			
75	066-544	RESISTOR, C.F., 2.2K OHMS, 1/4W, 5% R4,17,19,23,27,30,42,44,58,78,80,92,130,132			14	14	14	14	14	14	14	14	14	14	14			
76																		
77	066-569	RESISTOR, C.F., 3.6K OHMS, 1/4W, 5% R123			1	1	1	1	1	1	1	1	1	1	1			
78	066-551	RESISTOR, C.F., 5.6K OHMS, 1/4W, 5% R16,18			2	2	2	2	2	2	2	2	2	2	2			
79	066-554	RESISTOR, C.F., 8.2K OHMS, 1/4W, 5% R36,50,86,122			4	4	4	4	4	4	4	4	4	4	4			
80	066-543	RESISTOR, C.F., 2K OHMS, 1/4W, 5% R20,25,79			3	3	3	3	3	3	3	3	3	3	3			
81																		

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400013	SHEET 3		REV AA									
ITEM NO.	PART NUMBER	DESCRIPTION			REF DESIG	QTY REQD PER DASH NUMBER												
						-14	-15	-16	-17	-18	-19	-20	-21	-22	-23			
82	066-571	RESISTOR, C.F., 10K OHMS, 1/4W, 5%	R2,3,7,14,15,31,32,37,43,45,46,51,56,57,61,81,82,87,90,91,95,126,127,131,135,139,140			27	27	27	27	27	27	27	27	27	27			
83	066-682	RESISTOR, C.F., 11K OHMS, 1/4W, 5%	R10,13,63,66,98,100			6	6	6	6	6	6	6	6	6	6			
84	066-579	RESISTOR, C.F., 33K OHMS, 1/4W, 5%	R76,109,118			3	3	3	3	3	3	3	3	3	3			
85	066-624	RESISTOR, C.F., 39K OHMS, 1/4W, 5%	R1,29,35,41,49,55,77,85,89,121			10	10	10	10	10	10	10	10	10	10			
86																		
87	066-575	RESISTOR, C.F., 56K OHMS, 1/4W, 5%	R128,129			2	2	2	2	2	2	2	2	2	2			
88	076-859	RESISTOR, C.F., 560K OHMS, 1/4W, 5%	R73,106,115			3	3	3	3	3	3	3	3	3	3			
89	066-559	RESISTOR, C.F., 47K OHMS, 1/4W, 5%	R68,71,72,101,104,105,110,113,114,136			10	10	10	10	10	10	10	10	10	10			
90	066-549	RESISTOR, C.F., 4.7K OHMS, 1/4W, 5%	R26			1	1	1	1	1	1	1	1	1	1			
91	041-002	RESISTOR, C.F., 10 OHMS, 1/2W, 5%	R124,137			2	2	2	2	2	2	2	2	2	2			
92	076-009	RESISTOR, C.F., 68K OHMS, 1/4W, 5%	R141			1	1	1	1	1	1	1	1	1	1			
93	066-814	RESISTOR, C.F., 270 OHMS, 1/4W, 5%	R142			1	1	1	1	1	1	1	1	1	1			
94	066-016	RESISTOR, M.F., 66.5K OHMS, 1/8W, 1%	R70,103,112			3	3	3	3	3	3	3	3	3	3			
95	066-761	RESISTOR, M.F., 19.1K OHMS, 1/8W, 1%	R74,107,116			3	3	3	3	3	3	3	3	3	3			
96	066-661	RESISTOR, C.F., 120 OHMS, 1/4W, 5%	R143			1	1	1	1	1	1	1	1	1	1			
97	066-887	RESISTOR, C.F., 1 OHM, 1/4W, 5%	R38,52,88,138			4	4	4	4	4	4	4	4	4	4			
98	058-601	RESISTOR, VAR., 1K OHMS, 1/2W	R69,102,111			3	3	3	3	3	3	3	3	3	3			
99	058-566	RESISTOR, VAR., 10K OHMS, 1/2W	R54			1	1	1	1	1	1	1	1	1	1			
100	058-575	RESISTOR, VAR., 100K OHMS, 1/2W	R33,47,83			3	3	3	3	3	3	3	3	3	3			
101	058-868	RESISTOR, VAR., 100K OHMS, 1/2W	R5,59,93			3	3	3	3	3	3	3	3	3	3			
102	058-893	RESISTOR, VAR., 200K OHMS, 1/2W	R119,133			2	2	2	2	2	2	2	2	2	2			
103																		
104																		
105																		
106	119-470	SWITCH, 5 PST, DIP	S1			1	1	1	1	1	1	1	1	1	1			
107																		
108	014-969	TRANSISTOR, 2N5305 DARLINGTON	Q8,12,22,41,33,36			6	6	6	6	6	6	6	6	6	6			
109	580-166	TRANSISTOR, 2N5322	Q3,6,10,15,42,20,25,31			8	8	8	8	8	8	8	8	8	8			
110	580-167	TRANSISTOR, 2N5320	Q4,7,11,16,21,26,32			7	7	7	7	7	7	7	7	7	7			
111	014-961	TRANSISTOR, 2N4921	Q37			1	1	1	1	1	1	1	1	1	1			
112	014-960	TRANSISTOR, 2N4918	Q35			1	1	1	1	1	1	1	1	1	1			
113	014-505	TRANSISTOR, 2N3251	Q2,5,9,14,17-19,24,27-30,34,38-40			16	16	16	16	16	16	16	16	16	16			
114																		
115	014-600	TRANSISTOR, 2N2946	Q1,13,23			3	3	3	3	3	3	3	3	3	3			
116																		
117																		
118	280-180	MOUNTING PAD, TRANSISTOR TO-5				14	14	14	14	14	14	14	14	14	14			
119	280-130	MOUNTING PAD, TRANSISTOR, TO-18				24	24	24	24	24	24	24	24	24	24			
120	582-177	TRANSISTOR MOUNTING, INSULATOR	Q35,37			2	2	2	2	2	2	2	2	2	2			
121																		
122	613-055	WIRE, SHIELDED, 26 AWG			A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R			
123	302-395	MOUSE TAIL			4	4	4	4	4	4	4	4	4	4	4			
124																		
125																		



Assembly No. 1400013-16AA. Bias/Erase PWA, No. 1



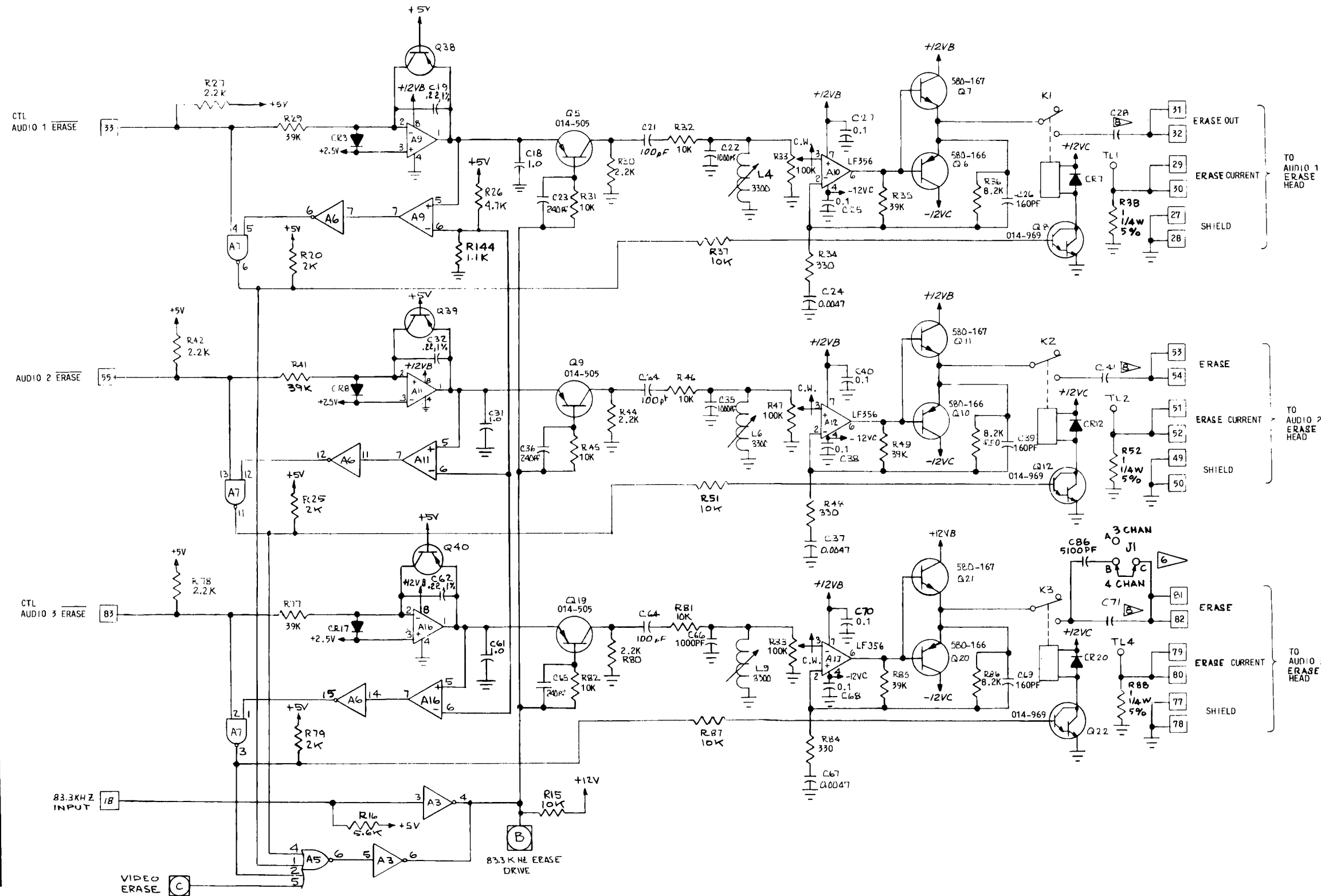
Schematic No. 1400015U.
Bias/Erase PWA, No. 1
(Sheet 1 of 3)

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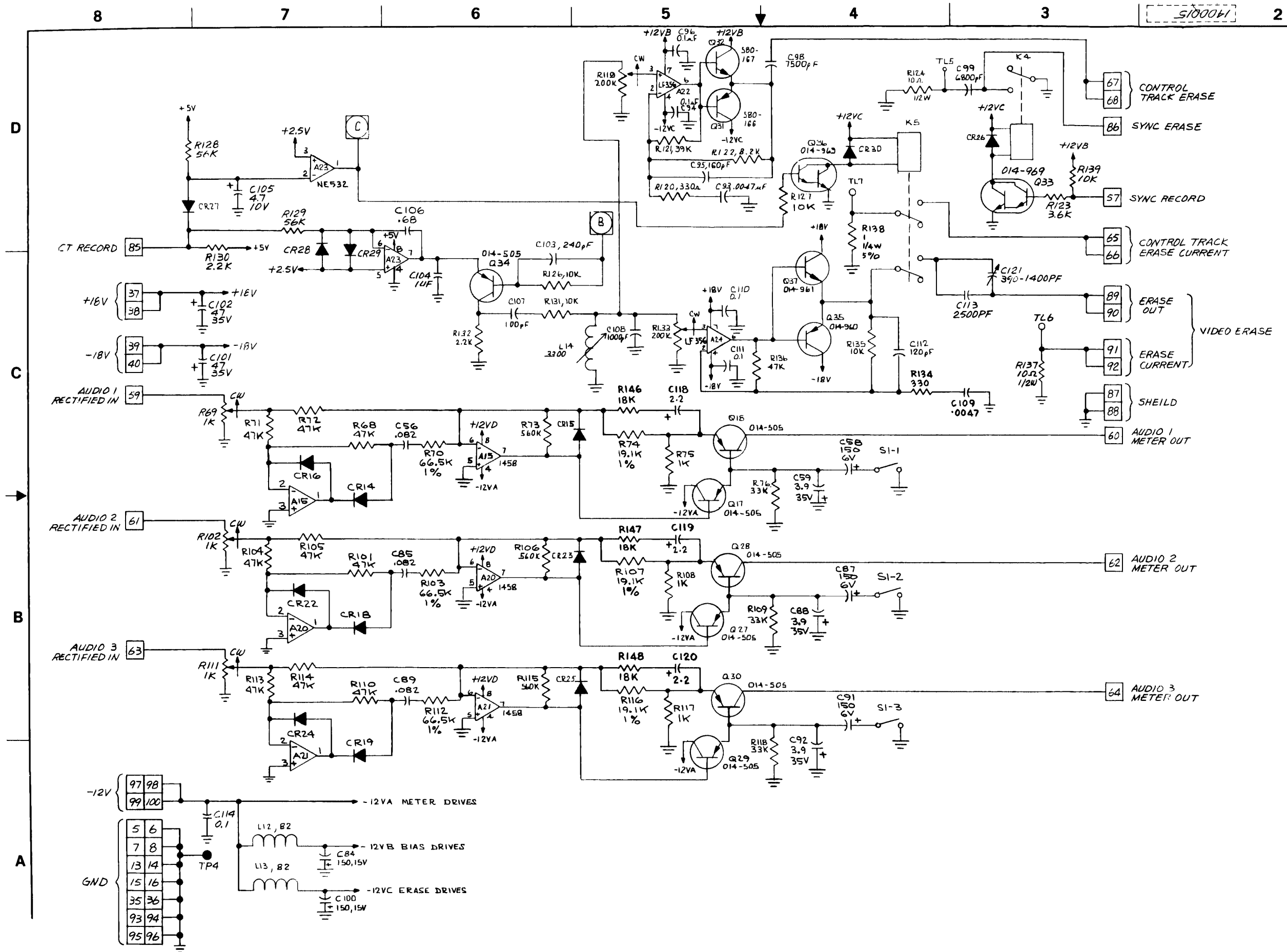
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Schematic No. 1400015U.
Bias/Erase PWA, No. 1
(Sheet 2 of 3)

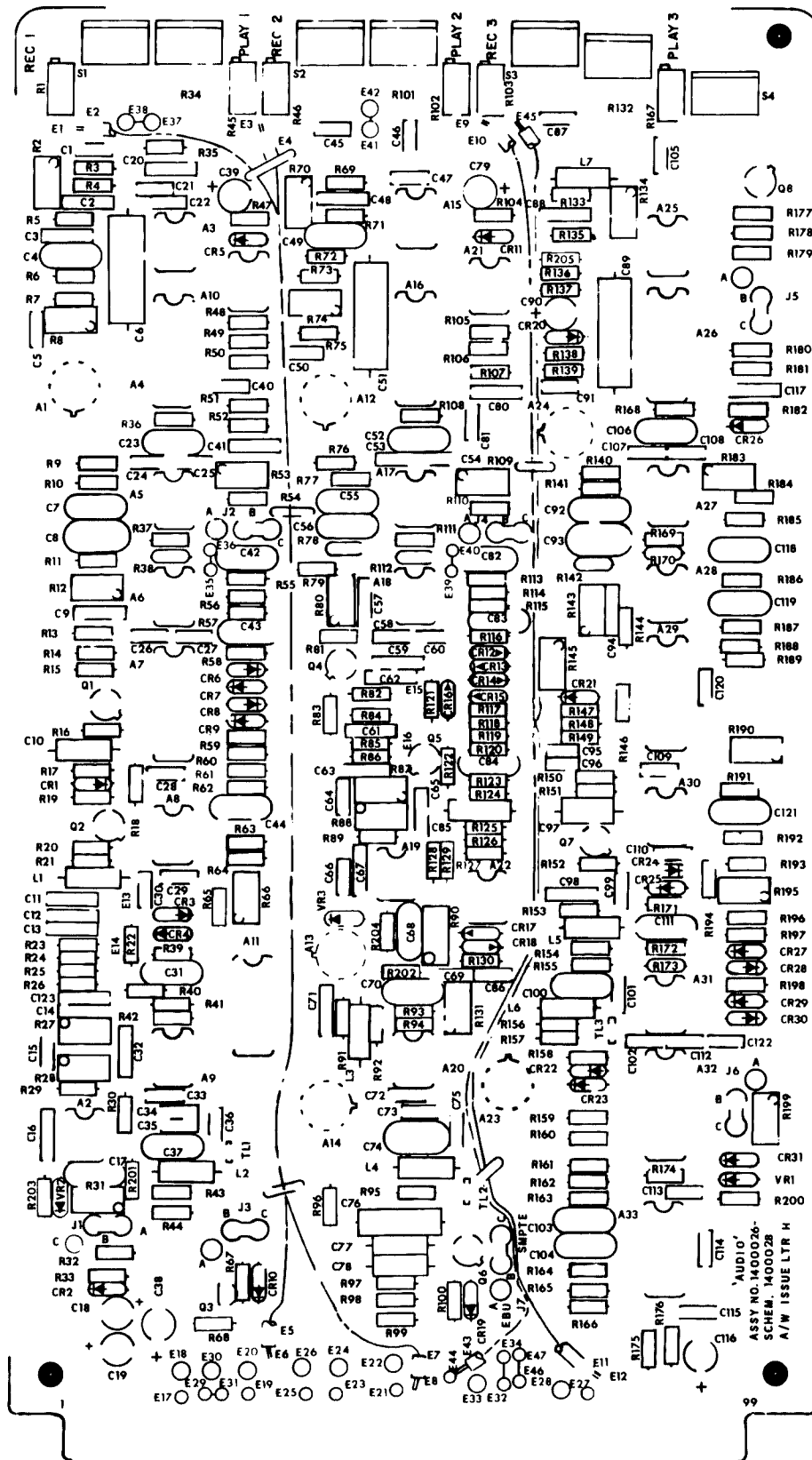


Schematic No. 1400015U.
Bias/Erase PWA, No. 1
(Sheet 3 of 3)

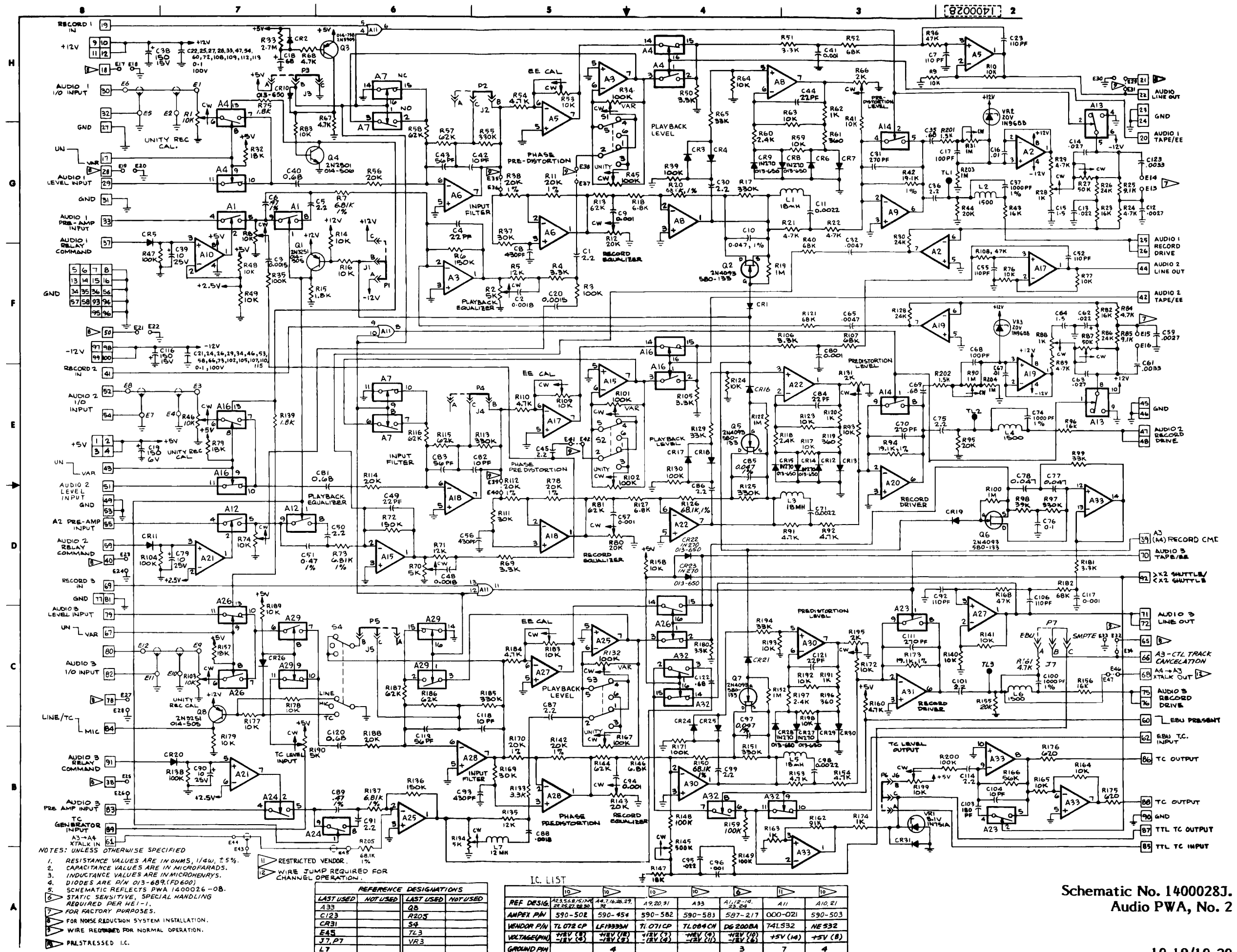
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER							
				-01	-02	-03	-04	-05	-06	-07	-08
1											
2											
3	1400028	SCHEMATIC	(-)	A	B	C	F	G	H	J	
4											
5	1400007-01	BRACKET, POT MOUNTING		3	3	3	3	3	3	3	
6	1400023-01	BRACKET, SWITCH MOUNTING		4	4	4	4	4	4	4	
7	1400003-01	SHIELD		1	1	1	1	1	1	1	
8	1400004-01	HANDLE		1	1	1	1	1	1	1	
9	1400005-AB	LABEL		1	1	1	1	1	1	1	
10	064-315	CAPACITOR, MONO., 1.5uF, C15,64		2	2	2	2	2	2	2	
11	280-130	TRANSISTOR MOUNTING PAD REF:Q1-8		8	8	8	8	8	8	8	
12	055-135	CAPACITOR, MYLAR, .0027uF, 50V, 5% C12,59		2	2	2	2	2	2	2	
13	064-062	CAPACITOR, CER., 0.1uF, 100V C21,22,24-29,33,34,46,47,53,54,58,60,66,72,73,105,107-110,112,113,115,102		29	29	29	29	29	29	29	
14											
15	035-815	CAPACITOR, MYLAR, .027uF, 50V, 5% C14,63		2	2	2	2	2	2	2	
16	037-957	CAPACITOR, TANT, 68uF, 15V, 20% C18		1	1	1	1	1	1	1	
17	064-313	CAPACITOR, CER., .68uF, 50V, C35,40,69,81,120,122		6	6	6	6	6	6	6	
18	064-316	CAPACITOR, CER., 2.2uF, 50V C1,5,30,36,45,50,86,75,87,91,99,101,114		13	13	13	13	13	13	13	
19	055-911	CAPACITOR, POLY., .47uF, 100V, 1% C6,51,89		3	3	3	3	3	3	3	
20	034-269	CAPACITOR, MICA, 22pF, 500V, ± .5 pF C4,44,49,84,121		5	5	5	5	5	5	5	
21	034-215	CAPACITOR, MICA, 10pF, 500V, 5% C42,82,104,118		4	4	4	4	4	4	4	
22	034-259	CAPACITOR, MICA, 56pF, 500V, 1% C43,83,119		3	3	3	3	3	3	3	
23	034-222	CAPACITOR, MICA, 100pF, 500V, 1% C17,68,100		3	3	3	3	-	-	-	
24	034-311	CAPACITOR, MICA, 1000pF, 500V, 1% C37,74		2	2	2	2	2	-	-	
25	034-319	CAPACITOR, MICA, 270pF, 500V, 5% C31,70,111		3	3	3	3	3	3	3	
26	034-347	CAPACITOR, MICA, 180pF, 500V, 5% C103		1	1	1	1	1	1	1	
27	034-888	CAPACITOR, MICA, 430pF, 500V, 5% C8,56,93		3	3	3	3	3	3	3	
28	034-938	CAPACITOR, MICA, 110pF, 500V, 5% C7,23,55,52,92,106		6	6	6	6	6	6	6	
29	055-809	CAPACITOR, POLYCAR., .047uF, 100V, 1% C10,85,97,78,77		5	5	5	5	5	5	5	
30	055-810	CAPACITOR, POLYCAR., 0.1uF, 100V, 1% C76		1	1	1	1	1	1	1	
31	035-828	CAPACITOR, MYLAR, .022uF, 50V 5% C13,62		2	2	2	2	2	2	2	
32	035-729	CAPACITOR, MYLAR, .0015uF, 50V C3,20		2	2	2	2	2	2	2	
33	055-133	CAPACITOR, MYLAR, .0022uF, 50V C11,71,98		3	3	3	3	3	3	3	
34	055-166	CAPACITOR, MYLAR, .001uF, 50V C9,41,57,80,94,117		6	6	6	6	6	6	6	
35	055-604	CAPACITOR, MYLAR, .0018uF, 50V C2,48,88		3	3	3	3	3	3	3	
36	069-097	CAPACITOR, POLY., .022uF, 50V, 5% C95		1	1	1	1	1	1	1	
37	069-090	CAPACITOR, POLY., .001uF, 50V C96		1	1	1	1	1	1	1	

AMPEX		CODE IDENT NO. 92739		LIST OF MATERIALS		LM-1400026		REV U					
AMPEX Corporation REDWOOD CITY, CALIFORNIA						SHEET 2							
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER									
				-01	-02	-03	-04	-05	-06	-07	-08		
38	035-734	CAPACITOR, MYLAR, .01uF, 50V, 5% C16,67		2	2	2	2	2	2	2	2		
39	037-812	CAPACITOR, TANT, 10uF, 25V C39,79,90		3	3	3	3	3	3	3	3		
40	037-960	CAPACITOR, TANT., 150uF, 15V C38,116		2	2	2	2	2	2	2	2		
41	037-970	CAPACITOR, TANT., 150uF, 6V C19		1	1	1	1	1	1	1	1		
42	035-730	CAPACITOR, MYLAR, .0047uF, 50V, 5% C32,65		2	2	2	2	2	2	2	2		
43	013-650	DIODE, GERMANIUM, 1N 270 CR8-10,14,15,22,23,27,28		9	9	9	9	9	9	9	9		
44	013-689	DIODE, SWITCHING, 1N 4001 CR1-7,11-13,16-19,20,21,24-26,29-31		22	22	22	22	22	22	22	22		
45	013-358	DIODE, ZENER, 5.1V, 1W VR1		1	1	1	1	1	1	1	1		
46	055-167	CAPACITOR, MYLAR, .0033 uF, 50V, 5% C61,123		2	2	2	2	2	2	2	2		
47	013-703	DIODE, ZENER, 20 V, 1W VR 2,3					2	2	2	2	2		
48	590-541	INTEGRATED CIRCUIT, 7432 A11				1	1	1	1	1	1		
49	587-217	INTEGRATED CIRCUIT, DG200 A1,12-14,23,24			6	6	6	6	6	6	6		
50	590-454	INTEGRATED CIRCUIT, LF13333 A4,7,16,26,29,32			6	6	6	6	6	6	6		
51	590-582	INTEGRATED CIRCUIT, TL071 A9,20,31			3	3	3	3	3	3	3		
52	590-502	INTEGRATED CIRCUIT, TL072 A2,3,5,6,8,15,17,18,19,22,25,27,28,30			14	14	14	14	14	14	14		
53	590-583	INTEGRATED CIRCUIT, TL084 A33			7	7	7	7	7	7	7		
54	590-503	INTEGRATED CIRCUIT, NE532 A10,21			2	2	2	2	2	2	2		
55	034-222	CAPACITOR, MICA, 100pF, 500V, 1% C17,68							2	2	2		
56	051-744	INDUCTOR, FIXED, 18MH, 10% L1,3,5			3	3	3	3	3	3	3		
57	540-074	INDUCTOR, FIXED, 1500uH, 10% L2,4,6			3	3	3	3	3	3	3		
58	051-648	INDUCTOR, FIXED, 12MH L7				1	1	1	1	1	1		
59	066-673	RESISTOR, C.F., 1 MEG OHMS, 1/4 W, 5% R19,100,122,152,203,204					6	6	6	6	6		
60	066-673	RESISTOR, C.F., 1 MEG OHMS, 1/4W, 5% R19,100,122,152											
61	066-847	RESISTOR, C.F., 33K OHMS, 1/4W, 5% R65,99,129,194				4	4	4	4	4	4		
62	076-012	RESISTOR, C.F., 330K OHMS, 1/4W, 5% R17,55,97,113,125,151,185		7	7	7	7	7	7	7	7		
63	066-832	RESISTOR, C.F., 18K OHMS, 1/4W, 5% R32,79,147,157		4	4	4	4	4	4	4	4		
64	066-829	RESISTOR, C.F., 6.8K OHMS, 1/4W, 5% R18,127,146		3	3	3	3	3	3	3	3		
65	066-665	RESISTOR, C.F., 1K OHMS, 1/4W, 5% R62,120,163,174,191		6	6	6	6	5	5	5	5		
66	066-717	RESISTOR, C.F., 47K OHMS, 1/4W, 5% R36,108,168		3	3	3	3	3	3	3	3		
67	066-720	RESISTOR, C.F., 3.3K OHMS, 1/4W, 5% R4,50,51,69,105,106,133,180,181		9	9	9	9	9	9	9	9		
68	066-819	RESISTOR, C.F., 620 OHMS, 1/4W, 5% R175,176		2	2	2	2	2	2	2	2		
69	066-849	RESISTOR, C.F., 100K OHMS, 1/4W, 5% R3,35,39,47,104,130,138,148,149,159,171,200		12	12	12	12	12	12	12	12		
70	066-845	RESISTOR, C.F., 24K OHMS, 1/4W, 5% R26,30,86,128		4	4	4	4	4	4	4	4		
71	066-833	RESISTOR, C.F., 56K OHMS, 1/4W, 5% R166		1	1	1	1	1	1	1	1		
72	066-844	RESISTOR, C.F., 16K OHMS, 1/4W, 5% R23,43,82,96,156		5	5	5	5	5	5	5	5		
73	066-846	RESISTOR, C.F., 30K OHMS, 1/4W, 5% R37,111,169		3	3	3	3	3	3	3	3		
74	041-780	RESISTOR, CARBON, COMP., 2.7M, 1/4W, 5% R33				1	1	1	1	1	1		
75	066-852	RESISTOR, C.F., 62K OHMS, 1/4W, 5% R13,57,58,81,115,116,144,186,187		9	9	9	9	9	9	9	9		
76	066-865	RESISTOR, C.F., 12K OHMS, 1/4W, 5% R5,71,135		3	3	3	3	3	3	3	3		
77	066-872	RESISTOR, C.F., 360 OHMS, 1/4W, 5% R61,119,196,201,202		5	5	5							
78	066-873	RESISTOR, C.F., 20K OHMS, 1/4W, 5% R44,56,95,114,155,188		6	6	6	6	6	6	6	6		
79	066-928	RESISTOR, C.F., 2.4K OHMS, 1/4W, 5% R60,118,197		3	3	3	3	3	3	3	3		
80	066-974	RESISTOR, C.F., 150K OHMS, 1/4W, 5% R6,72,136		3	3	3	3	3	3	3	3		
81	076-009	RESISTOR, C.F., 68K OHMS, 1/4W, 5% R40,52,107,121,182		5	5	5	5	5	5	5	5		
82	066-670	RESISTOR, C.F., 9.1 K OHMS, 1/4W, 5% R25,85		2	2	2	2	2	2	2	2		

AMPEX		AMPEX Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739		LIST OF MATERIALS				LM-1400026 SHEET 3				REV U	
ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER										
					-01	-02	-03	-04	-05	-06	-07	-08			
83	066-675		RESISTOR, C.F., 1.8K OHMS, 1/4W, 5% R15,75,139		3	3	3	3	3	3	3	3			
84	066-860		RESISTOR, C.F., 39K OHMS, 1/4W, 5% R98		1	1	1	1	1	1	1	1			
85	066-830		RESISTOR, C.F., 10K OHMS, 1/4W, 5% R9,10,14,16, 41,48,49 59,63,64,76,77,83		30	30	30	30	30	30	30	30			
86			93,117,123,124,140,141, 158,164,165,172,177-179												
87			189,192,193,198												
88	066-668		RESISTOR, C.F., 4.7K OHMS, 1/4W, 5% R21,22,24,29,54,67,68 84,89,91,92,110,153,154		17	17	17	17	17	17	17	17			
89			160,161,184												
90	066-913		RESISTOR, C.F., 220K OHMS, 1/4W, 5% R162		1	1	-	-	-	-	-	-			
91	062-642		RESISTOR, M.F., 6.81K OHMS, 1/8W, 1% R7,73,137		3	3	3	3	3	3	3	3			
92	062-642		RESISTOR, M.F., 6.81K OHMS, 1/8W, 1% R73,137,7,20		-	-	-	-	-	-	-	-			
93	062-693		RESISTOR, M.F., 20K OHMS, 1/8W, 1% R11,38,78,112,142,170		6	6	6	6	6	6	6	6			
94	066-655		RESISTOR, M.F., 68.1K OHMS, 1/8W, 1% R126,150		2	-	-	-	-	-	-	-			
95	066-761		RESISTOR, M.F., 19.1K OHMS, 1/4W, 1% R42,94,173		3	3	3	3	3	3	3	3			
96	066-655		RESISTOR, M.F. 68.1K OHMS, 1/8W, 1% R20,126,150		3	3	3	3	3	-	-	-			
97	058-527		RESISTOR, VAR., 20K OHMS, 1/2W R12,80,143		3	3	3	3	3	3	3	3			
98	058-540		RESISTOR, VAR., 5K OHMS, 1/2W R2,70,134,190		4	4	4	4	4	4	4	4			
99	058-565		RESISTOR, VAR., 10K OHMS, 1/2W R8,53,74,109,183,199		6	6	6	6	6	6	6	6			
100	058-651		RESISTOR, VAR., 2K OHMS, 1/2W R66,131,195		3	3	3	3	3	3	3	3			
101	058-601		RESISTOR, VAR., 1K OHMS, 1/2W R28,88		2	2	2	2	2	2	2	2			
102	058-765		RESISTOR, VAR., 50K OHMS, 1/2W R27,87		2	2	2	2	2	2	2	2			
103	058-947		RESISTOR, VAR., 500K OHMS, 1/2W R145		1	1	1	1	1	1	1	1			
104	075-143		RESISTOR, VAR., 1 MEG OHMS, 1/2W R31,90		2	2	2	2	2	2	2	2			
105	058-566		RESISTOR, VAR., 10K OHMS, SIDE ADJACENT R1,46,103		3	3	3	3	3	3	3	3			
106	058-868		RESISTOR, VAR., 100K OHMS, 1/2W R45,102,167		3	3	3	3	3	3	3	3			
107	075-204		RESISTOR, VAR., 100K OHMS R34,101,132		3	3	3	3	3	3	3	3			
108	066-857		RESISTOR, C.F. 91K OHMS, 1/4W, 5% R162				1	1	1	1	1	1			
109	066-824		RESISTOR, C.F. 1.5 OHMS, 1/4 W 5% R 201,202					2	2	2	2	2			
110	460-092		RIVET, .088 DIAMETER X .125 LG.		14	14	14	14	14	14	14	14			
111	066-872		RESISTOR, C.F. 360 OHMS, 1/4W, 5% R61,119,196				3	3	3	3	3	3			
112	119-580		SWITCH, DPDT S1-3		3	3	3	3	3	3	3	3			
113	119-581		SWITCH, DPDT (CENTER OFF) S4		1	1	1	1	1	1	1	1			
114	460-055		RIVET, .088 DIA X .156 LG					6	6	6	6	6			
115	187-259		TEST POINT. TL 1-3		3	3	3	3	3	3	3	3			
116	034-311		CAPACITOR, MICA, 1000pF, 100V, 1% C37,74,100						3	3	3	3			
117	014-505		TRANSISTOR, CD444, 2N3251 Q1,8		2	2	2	2	2	2	2	2			
118	014-506		TRANSISTOR, CD446, 2N4561 Q4			1	1	1	1	1	1	1			
119	014-798		TRANSISTOR, 2N3905 Q3			1	1	1	1	1	1	1			
120	580-133		TRANSISTOR, 2N4093 Q2,5,6,7		4	4	4	4	4	4	4	4			
121	066-655		RESISTOR, M.F., 68.1K OHMS, 1/8W, 1% R20,126,150,205							4	4	4			
122	283-105		SPACER, PLAIN, .125 LG.			1	1	1	1	1	1	1			
123	474-500		SCREW, MACH, PAN HD, X REC, 4-40 X .312 LG		5	5	5	5	5	5	5	5			
124	471-063		SCREW, MACH, PAN HD, X REC, 4-40 X .438 LG.			1	1	1	1	1	1	1			
125	473-325		SCREW, MACH, PAN HD, X REC, 4-40 X .312 LG.		-	-	-	-	-	-	-	-			
126															
127	230-140		KNOB, POT REF: R34,101,132		3	3	3	3	3	3	3	3			



Assembly No. 1400026-08U. Audio PWA, No. 2





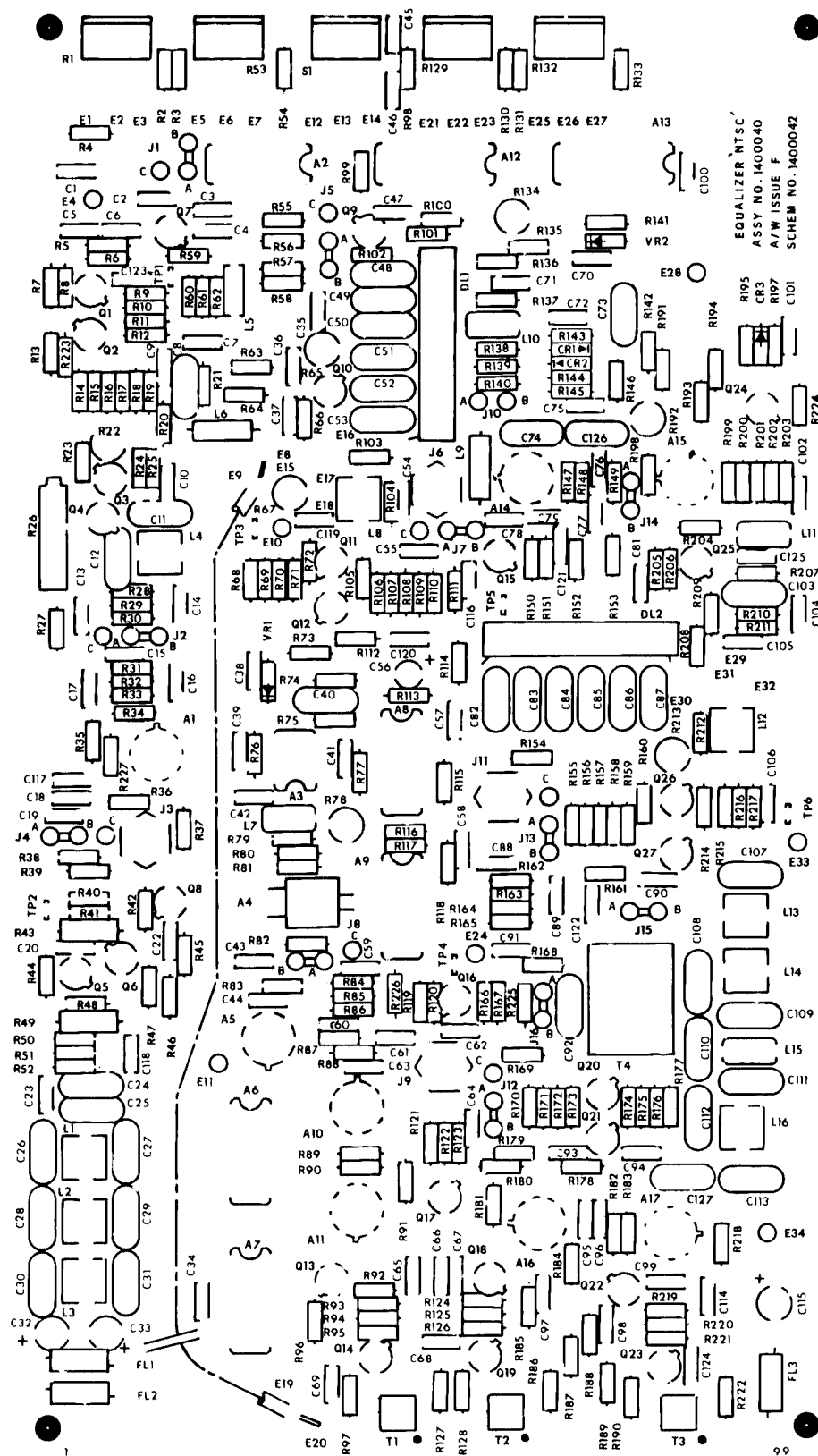
Schematic No. 1400028J.
Audio PWA, No. 2

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02	-03	-04						
1				03	04	04							
2													
3	1400042	SCHEMATIC		C	E	F	J						
4													
5	1400003-01	SHIELD		1	1	1	1						
6	1400004-01	HANDLE		1	1	1	1						
7	1400005-AD	LABEL		1	1	1	1						
8	1400262-01	BRACKET	REF: R1,53,129,132,51		5	5	5						
9	230-144	KNOB, CONTROL	REF: R1,53,129,132	5	4	4	4						
10	460-055	RIVET, .088 DIA X.156 LG	REF: R1,53,129,132,51		10	10	10						
11													
12	1374388-CC	INDUCTOR, VAR, .33uH	L14	1	1	1	1						
13	1374388-CE	INDUCTOR, VAR, .47uH	L16	1	1	1	1						
14	1374371-AP	INDUCTOR, VAR, .25uH	L8,12,13	3	3	3	3						
15	1374388-CA	INDUCTOR, VAR, 1uH	L1	1	1	1	1						
16	1374388-AA	INDUCTOR, VAR, 1.2uH	L2	1	1	1	1						
17	1374388-AD	INDUCTOR, VAR, 1.5uH	L3	1	1	1	1						
18	1374388-AJ	INDUCTOR, VAR, 5.6uH	L4	1	1	1	1						
19	1374188-01	INDUCTOR, FILTER	FL 1,2,3	3	3	3	3						
20													
21													
22	1208744-01	DELAY LINE	DL 1,2	2	2	2	2						
23	1217042-10	TRANSFORMER, VAR.	T4	1	1	1	1						
24	570-435	TRANSFORMER, T41T	T 1,2,3	3	3	3	3						
25													
26													
27													
28													
29	013-224	DIODE ZENER (IN754)	VR2	1	1	1	1						
30	013-983	DIODE ZENER (IN752)	VR1	1	1	1	1						
31	013-689	DIODE (FD600)	CR1-3	3	3	3	3						
32													
33													
34	014-505	TRANSISTOR CD445 (2N325)	Q1,4,5,7,12,21,26	7	7	7	7						
35	014-581	TRANSISTOR (2N2369A)	Q2,3,6,8,9,10,11,13,14-20,22-25,27	20	20	20	20						
36	280-130	TRANSISTOR MTG PAD	REF: Q1-27		27	27	27						
37													

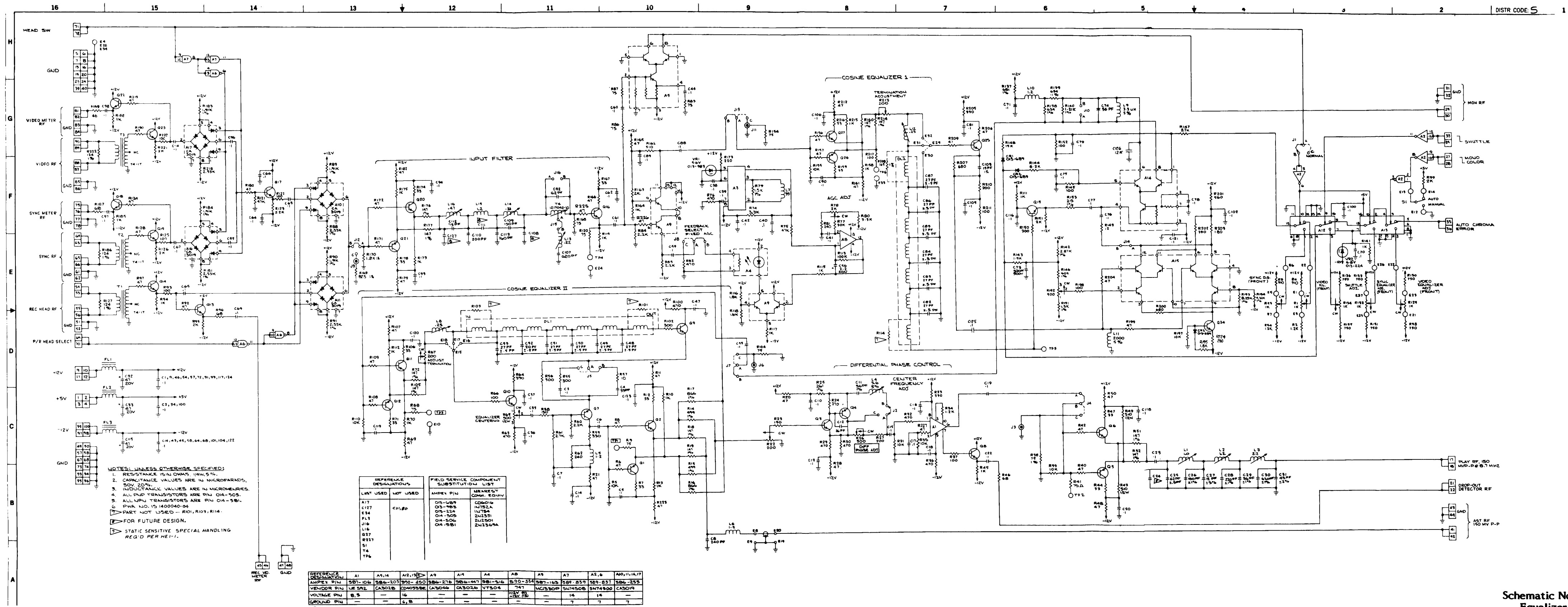
AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-400040	SHEET 240		DRY P						
ITEM NO	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER										
					-01	-02	-03	-04							
38	037-892		CAPACITOR, TANT, DIPPED, 47uF, 20V	C32,33,115	3	3	3	3							
39	037-730		CAPACITOR, TANT, DIPPED, 2.2uF, 20V	C56	1	1	1	1							
40					1										
41															
42	034-251		CAPACITOR, MICA, 39pF, 500V, 1%	C4,103	2	2	-	-							
43	034-251		CAPACITOR, MICA, 39pF, 500V, 1%	C4	-	-	1	1							
44	034-759		CAPACITOR, MICA, 15pF, 500V, 1%	C103	-	-	1	1							
45	034-939		CAPACITOR, MICA, 91pF, 500V, 5%	C74	1	-	-	-							
46															
47	034-935		CAPACITOR, MICA, 240pF, 500V, 5%	C8	1	1	1	1							
48	056-292		CAPACITOR, MICA, 500pF, 500V, 5%	C73	1	1	1	1							
49	056-140		CAPACITOR, MICA, 20pF, 500V, ±.5pF	C87	1	1	1	1							
50	034-259		CAPACITOR, MICA, 56pF, 500V, 1%	C11	1	-	-	-							
51	034-541		CAPACITOR, MICA, 62pF, 500V, 1%	C25,92	2	2	2	2							
52	034-285		CAPACITOR, MICA, 75pF, 500V, 1%	C112	1	1	1	1							
53	034-239		CAPACITOR, MICA, 130pF, 500V, 1%	C109	1	1	1	1							
54	034-224		CAPACITOR, MICA, 160pF, 500V, 1%	C113	1	1	1	1							
55	034-297		CAPACITOR, MICA, 180pF, 500V, 1%	C26	1	1	1	1							
56	034-221		CAPACITOR, MICA, 200pF, 500V, 1%	C110	1	1	1	1							
57	034-225		CAPACITOR, MICA, 220pF, 500V, 1%	C28	1	1	1	1							
58	034-250		CAPACITOR, MICA, 620pF, 500V, 1%	C30,107	2	2	2	2							
59	056-679		CAPACITOR, MICA, 27pF, 500V, ±.5pF	C48-53,82-86	11	11	11	11							
60	056-580		CAPACITOR, MICA, 12pF, 500V, ±.5pF	C27,126	2	2	2	2							
61	056-412		CAPACITOR, MICA, 36pF, 500V, ±.5pF	C29,12	2	2	2	2							
62	056-680		CAPACITOR, MICA, 43pF, 500V, ±.5pF	C31	1	1	1	1							
63	034-259		CAPACITOR, MICA, 56pF, 500V, 1%	C11,74		2	2	2							
64															
65															
66															
67															
68	030-963		CAPACITOR, MONO, .1uF, 50V	C1-3,5-7,9,10,13-18,19,20,22,23,34-47,54,55,57-72,75-79,81,88-91,93-102,104,105,114,106,116-125	84	84	84	84							
69															
70															
71	066-810		RESISTOR, C.F., 10 OHM 1/4W, 5%	R 57	1	1	1	1							
72	076-036		RESISTOR, C.F., 12 OHM, 1/4W, 5%	R149	1	1	1	1							
73	066-834		RESISTOR, C.F., 33 OHM, 1/4W, 5%	R7,12,44,47,71,106,159,167,174,178,216	11	11	11	11							
74	066-938		RESISTOR, C.F., 47 OHM, 1/4W, 5%	R6,8,11,20,21,28,40,42,48,50,69,107,219,92,97,225-227,108,109,124,128,156,157,161,165,166,171,172,179,180,182,223,190,199,204,206,209,212	39	39	39	39							
75															
76	066-677		RESISTOR, C.F., 68 OHM, 1/4W, 5%	R46,96,187,189	4	4	4	4							
77	076-045		RESISTOR, C.F., 75 OHM, 1/4W, 5%	R83,86,87,120,41	5	5	5	5							
78	066-812		RESISTOR, C.F., 100 OHM, 1/4W, 5%	R220, 66,93,9,37,125,122,145,152,198,211,217	12	12	12	12							
79															
80	066-663		RESISTOR, C.F., 220 OHM, 1/4W, 5%	R73	1	1	1	1							
81															

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400040										REV P
ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
					-01	-02	-03	-04								
82																
83																
84	066-813	RESISTOR, C.F., 150 OHM 1/4W, 5%	R23,58	2	2		2	2								
85	076-004	RESISTOR, C.F., 180 OHM, 1/4W, 5%	R203	1	1		1	1								
86	066-662	RESISTOR, C.F., 200 OHM, 1/4W, 5%	R210,27,224	3	3		3	3								
87	066-859	RESISTOR, C.F., 240 OHM, 1/4W, 5%	R62,81	2	2		2	2								
88	066-815	RESISTOR, C.F., 300 OHM, 1/4W, 5%	R55,102,150,56	4	4		4	4								
89	066-838	RESISTOR, C.F., 330 OHM, 1/4W, 5%	R33,59	2	2		2	2								
90	066-816	RESISTOR, C.F., 390 OHM, 1/4W, 5%	R64,202,205,207	4	4		-	-								
91	066-818	RESISTOR, C.F., 470 OHM, 1/4W, 5%	R29,30,32,36,63, 76,82,100	8	8		8	8								
92	066-664	RESISTOR, C.F., 510 OHM, 1/4W, 5%	R162	1	1		1	1								
93	066-839	RESISTOR, C.F., 560 OHM, 1/4W, 5%	R201	1	1		1	1								
94	066-840	RESISTOR, C.F., 680 OHM, 1/4W, 5%	R200	1	1		-	-								
95	066-820	RESISTOR, C.F., 750 OHM, 1/4W, 5%	R98,130,131,133,135,136	6	6		6	6								
96	066-665	RESISTOR, C.F., 1K OHM, 1/4W, 5%	R3,4,10,13,70,112,117, 119,164,173,175, 111	20	20		20	-								
97			45,158,215,141,188,185,94,115													
98	066-715	RESISTOR, C.F., 1.2KOHM, 1/4W, 5%	R34	1	1		-	-								
99	066-814	RESISTOR, C.F., 270 OHM, 1/4W, 5%	R24	1	1		1	1								
100	066-816	RESISTOR, C.F., 390 OHMS, 1/4W, 5%	R64,202,205	-	-		3	3								
101	066-840	RESISTOR, C.F., 680 OHMS, 1/4W, 5%	R200,207	-	-		2	2								
102	066-715	RESISTOR, C.F., 1.2K OHMS, 1/4W, 5%	R34,2,54				3									
103	066-824	RESISTOR, C.F., 1.5K OHM, 1/4W, 5%	R143	1	1		1	1								
104	066-675	RESISTOR, C.F., 1.8K OHM, 1/4W, 5%	R116,118,195	3	3		3	3								
105	066-826	RESISTOR, C.F., 2K OHM, 1/4W, 5%	R2,54,95,99,126,151, 163,221	8	8		8	-								
106	066-689	RESISTOR, C.F., 2.2K OHM, 1/4W, 5%	R60,84,85,123	4	4		4	4								
107	066-666	RESISTOR, C.F., 2.7K OHM, 1/4W, 5%	R61,147	2	2		2	2								
108	066-720	RESISTOR, C.F., 3.3k OHM, 1/4W, 5%	RR74,80	2	2		2	2								
109	066-822	RESISTOR, C.F., 910 OHMS, 1/4W, 5%	R3,4				-	2								
110	066-665	RESISTOR, C.F., 1K OHMS, 1/4W, 5%	R10,13,45,70,94,111,112, 115,117,119,141,158,164, 173,175,185,188,215				-	18								
111																
112	066-826	RESISTOR, C.F., 2K OHMS, 1/4W, 5%	R95,99,126,151,163,221				-	6								
113	066-669	RESISTOR, C.F., 8.2K OHM, 1/4W, 5%	R144	1	1		1	1								
114	066-830	RESISTOR, C.F., 10K OHM, 1/4W, 5%	R5,31,35,39,110, 155,197	7	7		7	7								
115	066-856	RESISTOR, C.F., 15K OHM, 1/4W, 5%	R148	1	1		1	1								
116	066-846	RESISTOR, C.F., 30K OHM, 1/4W, 5%	R77	1	1		1	1								
117	066-717	RESISTOR, C.F., 47K OHM, 1/4W, 5%	R75,121	2	2		2	2								
118	066-849	RESISTOR, C.F., 100K OHM, 1/4W, 5%	R113	1	1		1	1								
119																
120																
121																
122																
123																
124	062-840	RESISTOR, M.F., 82.5 OHM, 1/8W, 1%	R169	1	1		1	1								
125	062-836	RESISTOR, M.F., 75 OHM, 1/8W, 1%	R38,68,104,154,168	5	5		5	5								
126	062-856	RESISTOR, M.F., 124 OHM, 1/8W, 1%	R127,186,222	3	3		3	3								

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400040				SHEET 4		REV P		
ITEM NO.	PART NUMBER		DESCRIPTION	REF. DESIGN	QTY REQD PER DASH NUMBER									
					-01	-02	-03	-04						
127														
128	062-863		RESISTOR, M.F., 147 OHM, 1/8W, 1% 818,19,51,52,176,177. 72,105,160,214		10	10	10	10						
129	062-867		RESISTOR, M.F., 165 OHM, 1/8W, 1% R208		1	1	1	1						
130	062-876		RESISTOR, M.F., 215 OHM, 1/8W, 1% R153		1	1	1	1						
131	062-625		RESISTOR, M.F., 1.21K OHM, 1/8W, 1% R170		1	-	-	-						
132	062-881		RESISTOR, M.F. 261 OHM, 1/8W, 1% R25		1	1	1	1						
133	062-902		RESISTOR, M.F., 499 OHM, 1/8W, 1% R14,15		2	2	2	2						
134	062-911		RESISTOR, M.F., 634 OHM, 1/8W, 1% R138,139,140		3	-	-	-						
135	062-913		RESISTOR, M.F., 681 OHM, 1/8W, 1% R137		1	1	1	1						
136	062-920		RESISTOR, M.F., 866 OHM, 1/8W, 1% R16,17		2	2	2	2						
137	062-922		RESISTOR, M.F., 909 OHM, 1/8W, 1% R146		1	1	1	1						
138	062-625		RESISTOR, M.F., 1.21K OHM, 1/8W, 1% R140,170			2	2	2						
139	062-911		RESISTOR, M.F., 634 OHM, 1/8W, 1% R138,139			2	2	2						
140														
141	062-932		RESISTOR, M.F., 1.5K OHM, 1/8W, 1% R191,79		2	2	2	2						
142	066-454		RESISTOR, M.F., 1.91K OHM, 1/8W, 1% R89,90,183,184		4	4	4	4						
143	062-948		RESISTOR, M.F., 2.55K OHM, 1/8W, 1% R88,91,181,218		4	4	4	4						
144	062-952		RESISTOR, M.F., 2.87K OHM, 1/8W, 1% R142		1	1	1	1						
145	062-963		RESISTOR, M.F., 4.32K OHM, 1/8W, 1% R194		1	1	1	1						
146	042-378		RESISTOR, M.F., 8.25K OHM, 1/8W, 1% R193		1	1	1	1						
147														
148														
149	041-404		RESISTOR, COMP, 510 OHM, 1/2W, 5% R43,49		2	2	2	2						
150	058-339		RESISTOR, VAR, 500 OHM, 3/4W, 5% R26		1	1	1	1						
151	044-891		RESISTOR, VAR, 200 OHM, 1/2W, R22,67,213		3	3	3	3						
152	044-927		RESISTOR, VAR, 500 OHM, 1/2W, R65,192		2	2	2	2						
153	058-004		RESISTOR, VAR, 1K OHM, 1/2W, R134		1	1	1	1						
154	044-943		RESISTOR, VAR, 2K OHM, 1/2W, R78		1	1	1	1						
155	058-473		RESISTOR, VAR, 1K OHM, 1/2W, (FRONT MTG) R1,53,129,132		4	4	4	4						
156														
157	051-340		INDUCTOR, FIXED, 3.3 uH, 5% L9			1	1	1						
158	068-087		INDUCTOR, FIXED, 1.2uH L5,10,15		3	3	3	3						
159	051-897		INDUCTOR, FIXED, 2.2uH L9		1	-	-	-						
160	068-046		INDUCTOR, FIXED, 39uH L7		1	1	1	1						
161	068-091		INDUCTOR, FIXED, 2000uH L 11		1	1	1	1						
162	541-969		INDUCTOR, FIXED, 1.5uH L6		1	1	1	1						
163														
164	589-837		INTEGRATED CIRCUIT, SN74S00  A2,6		2	2	2	2						
165	589-839		INTEGRATED CIRCUIT, SN74S08  A7		1	1	1	1						
166	586-447		INTEGRATED CIRCUIT, UA3026 A15		1	1	1	1						
167	586-203		INTERGATED CIRCUIT, UA3028 A5,14		2	2	2	2						
168	586-276		INTEGRATED CIRCUIT, CA3046 A9		1	1	1	1						
169	586-255		INTEGRATED CIRCUIT, CA3019 A10,11,16,17		4	4	4	4						
170	587-163		INTEGRATED CIRCUIT, MC1330P A3		1	1	1	1						
171	587-106		INTEGRATED CIRCUIT, NE592 A 1		1	1	1	1						



Assembly No. 1400040-04P. Equalizer PWA, No. 4, 525 Line (Sync) (Accessory)



Schematic No. 1400042J.
Equalizer PWA, No. 4
525 Line (Sync) (Accessory)

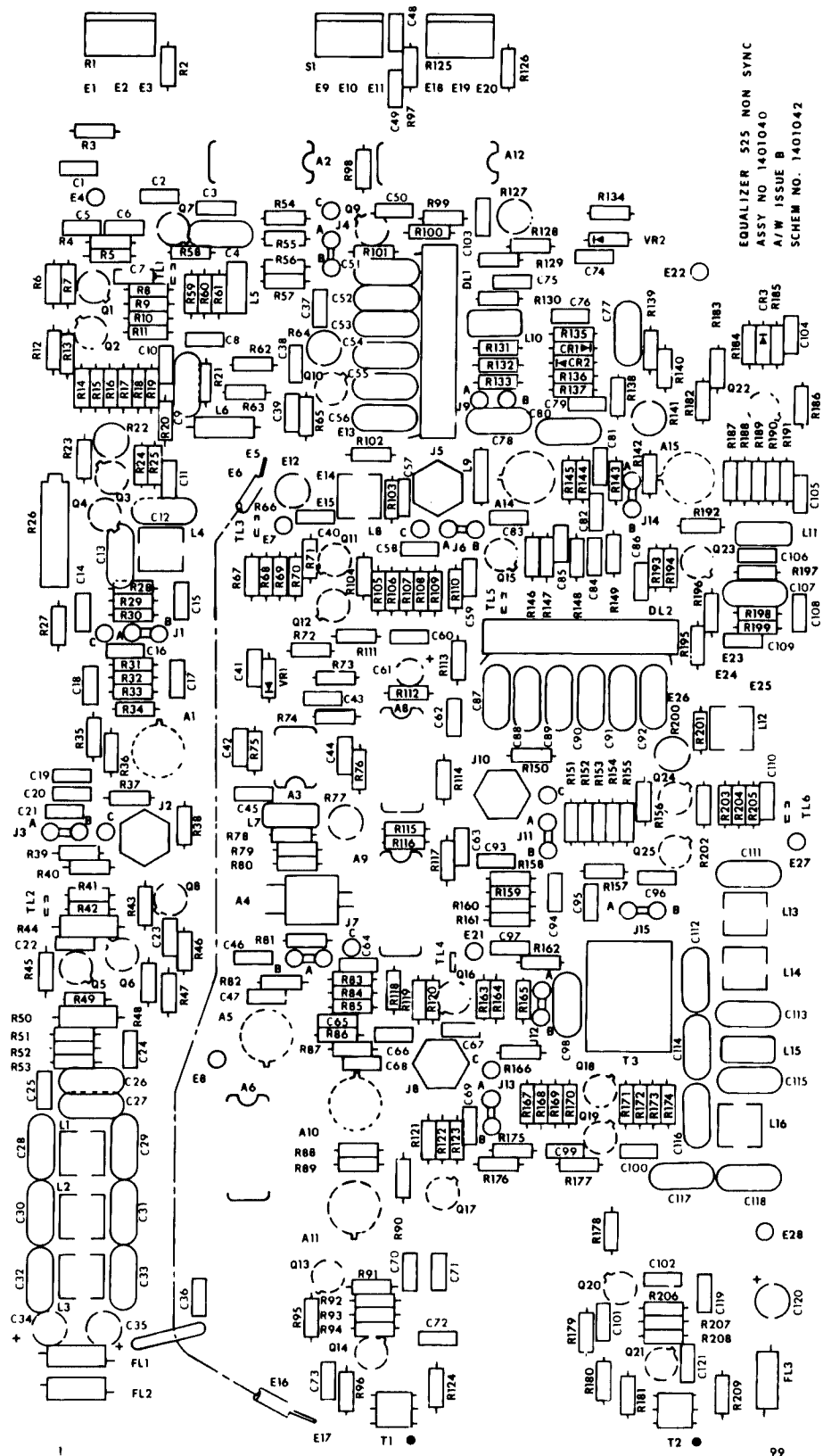
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	02	-03							
1				-01	-02								
2													
3	1401042	SCHEMATIC		(-)	(-)	c							
4													
5	1400003-01	SHIELD		1	1	1							
6	1400004-01	HANDLE		1	1	1							
7	1400005-AD	LABEL		1	1	1							
8													
9	230-144	KNOB, CONTROL	REF: R1,125	2	2	2							
10													
11													
12	1374388-CC	INDUCTOR, VAR., .33uH	L14	1	1	1							
13	1374388-CE	INDUCTOR, VAR., .47uH	L16	1	1	1							
14	1374371-AP	INDUCTOR, VAR., .25uH	L8,12,13	3	3	3							
15	1374388-CA	INDUCTOR, VAR., 1uH	L1	1	1	1							
16	1374388-AA	INDUCTOR, VAR., 1.2uH	L2	1	1	1							
17	1374388-AD	INDUCTOR, VAR., 2.2uH	L3	1	1	1							
18	1374388-AJ	INDUCTOR, VAR., 5.6uH	L4	1	1	1							
19	1374188-01	INDUCTOR, FILTER	FL 1,2,3	3	3	3							
20													
21													
22	1208744-01	DELAY LINE	DL 1,2	2	2	2							
23	1217042-10	TRANSFORMER, VAR.	T3	1	1	1							
24	570-435	TRANSFORMER, T41T	T 1,2	2	2	2							
25													
26													
27													
28													
29	013-224	DIODE ZENER (1N754)	VR2	1	1	1							
30	013-983	DIODE ZENER (1N752)	VR1	1	1	1							
31	013-689	DIODE, 1N3600 SELECT	CR1-3	3	3	3							
32													
33													
34	014-505	TRANSISTOR CD445 PNP (1N3451)	Q1,4,5,7,12,19,24	7	7	7							
35	014-581	TRANSISTOR (2N2369A) NPN	Q2,3,6,8,9,10,11,13,14-18, 20-23,25	18	18	18							
36													
37	280-130	PAD, TRANSISTOR, MTG.	REF: Q1-25	25	25	25							

AMPEX Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739		LIST OF MATERIALS		LM- 1401040 SHEET 2		REV L						
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER										
				-01	02	-03								
38	037-892	CAPACITOR, TANT, DIPPED, 47uF, 20V	C34,35,120	3	3	3								
39	037-790	CAPACITOR, TANT, DIPPED, 2.2uF, 20V	C61	1	1	1								
40														
41														
42	034-251	CAPACITOR, MICA, 39pF, 500V, 1%	C4	1	1	1								
43	034-759	15pF	C107	1	1	1								
44														
45														
46														
47	034-935	CAPACITOR, MICA, 240pF, 500V, 5%	C9	1	1	1								
48	056-292	CAPACITOR, MICA, 500pF, 500V, 5%	C77	1	1	1								
49														
50	034-259	CAPACITOR, MICA, 56pF, 500V, 1%	C12,78	2	2	2								
51	034-541	CAPACITOR, MICA, 62pF, 500V, 1%	C27,98	2	2	2								
52	034-285	CAPACITOR, MICA, 75pF, 500V, 1%	C116	1	1	1								
53	034-239	CAPACITOR, MICA, 130pF, 500V, 1%	C113	1	1	1								
54	034-224	CAPACITOR, MICA, 160pF, 500V, 1%	C118	1	1	1								
55	034-297	CAPACITOR, MICA, 180pF, 500V, 1%	C28	1	1	1								
56	034-221	CAPACITOR, MICA, 200pF, 500V, 1%	C114	1	1	1								
57	034-225	CAPACITOR, MICA, 220pF, 500V, 1%	C30	1	1	1								
58	034-250	CAPACITOR, MICA, 620pF, 500V, 1%	C32,111	2	2	2								
59	056-679	CAPACITOR, MICA, 27pF, 500V, ± .5pF	C51-56,87-92	12	12	12								
60	056-580	CAPACITOR, MICA, 12pF, 500V, ± .5pF	C29,80	2	2	2								
61	056-412	CAPACITOR, MICA, 36pF, 500V, ± .5pF	C13,31	2	2	2								
62	056-680	CAPACITOR, MICA, 43pF, 500V, ± .5pF	C33	1	1	1								
63														
64														
65														
66														
67														
68	030-963	CAPACITOR, MONO, .1uF, 50V	C1-3,5-8,10,11,14-25,36-42,43,44-50,57-60,62-76,79,81-86,93-97,99-106,108-110,119,121	79	79	79								
69														
70														
71	066-810	RESISTOR, C.F., 10 OHM, 1/4W, 5%	R56	1	1	1								
72	076-036	RESISTOR, C.F., 12 OHM, 1/4W, 5%	R143	1	1	1								
73	066-834	RESISTOR, C.F., 33 OHM, 1/4W, 5%	R6,11,45,48,70,105,155,164,171,177,204	11	11	11								
74	066-938	RESISTOR, C.F., 47 OHMS, 1/4W, 5%	R5,7,10,13,20,21,28,36,41,43,49,51,68,91,96,106-108,118,152,153,157,161,163,165,168,169,175,176,178,181,187,192,194,196,201,206	37	37	37								
75														
76	066-677	RESISTOR, C.F., 68 OHMS, 1/4W, 5%	R47,95,180	3	3	3								
77	076-045	RESISTOR, C.F., 75 OHMS, 1/4W, 5%	R8,42,67,82,85,86,103,120,150,162	10	10	10								
78	066-812	RESISTOR, C.F., 100 OHMS, 1/4W, 5%	R38,65,92,122,137,142,148,199,205,207	10	10	10								
79														

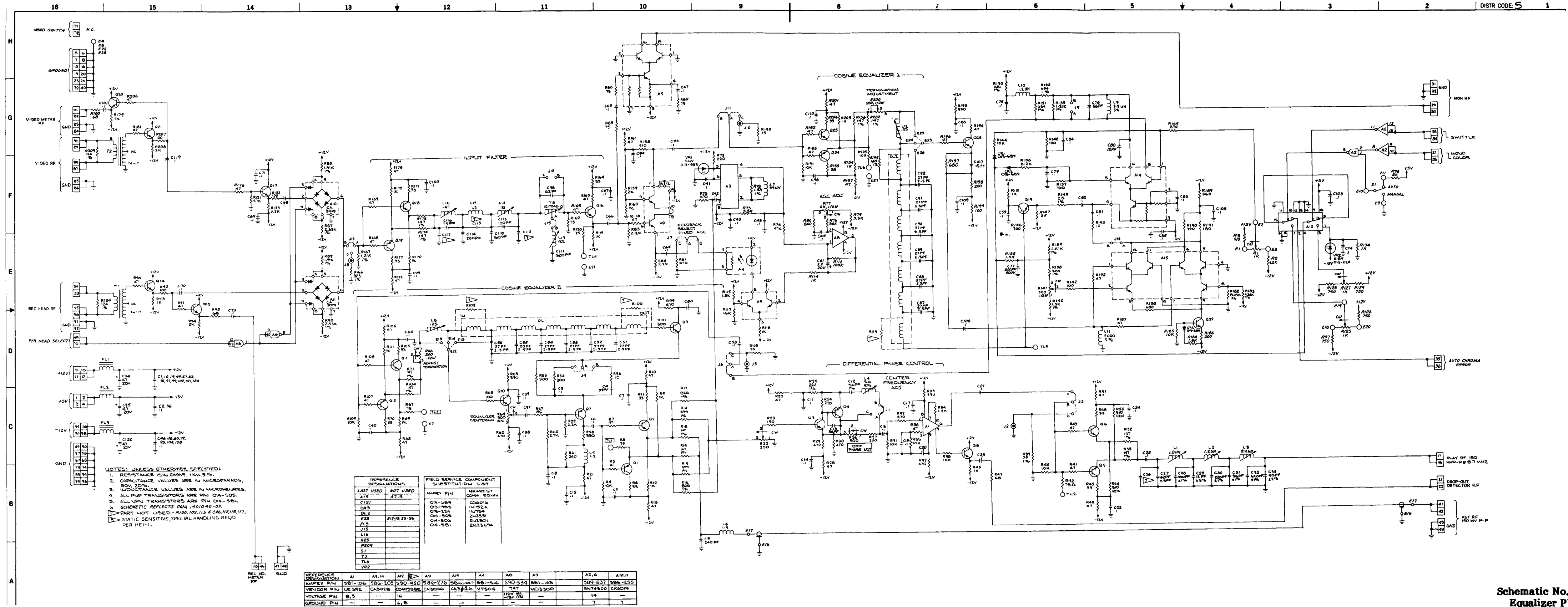
AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM- 1401040	REV L										
ITEM NO.	PART NUMBER	DESCRIPTION	REF. DESIGN.	QTY REQD PER DASH NUMBER													
				-01	-02	-03											
80	066-663	RESISTOR, C.F., 220 OHMS, 1/4W, 5%	R72		1	1											
81																	
82																	
83																	
84	066-813	RESISTOR, C.F., 150 OHMS, 1/4W, 5%	R57,23	2	2	2											
85	076-004	RESISTOR, C.F., 180 OHMS, 1/4W, 5%	R191	1	1	1											
86	066-662	RESISTOR, C.F., 200 OHMS, 1/4W, 5%	R186,198,27	3	3	3											
87	066-859	RESISTOR, C.F., 240 OHMS, 1/4W, 5%	R61,80	2	2	2											
88	066-815	RESISTOR, C.F., 300 OHMS, 1/4W, 5%	R55,54,101,146	4	4	4											
89	066-838	RESISTOR, C.F., 330 OHMS, 1/4W, 5%	R33,58	2	2	2											
90	066-816	RESISTOR, C.F., 390 OHMS, 1/4W, 5%	R63,190,193,	3	3	3											
91	066-818	RESISTOR, C.F., 470 OHMS, 1/4W, 5%	R29,30,32,62,75, 81,99	7	-	-											
92	066-664	RESISTOR, C.F., 510 OHMS, 1/4W, 5%	R158	1	1	1											
93	066-839	RESISTOR, C.F., 560 OHMS, 1/4W, 5%	R189	1	1	1											
94	066-840	RESISTOR, C.F., 680 OHMS, 1/4W, 5%	R188,197	2	2	2											
95	066-820	RESISTOR, C.F., 750 OHMS, 1/4W, 5%	R126,128,129,97	4	4	4											
96	066-665	RESISTOR, C.F., 1K OHMS, 1/4W, 5%	R3,9,12,37,46,69,93, 110,111,114,116,119, 134,154,160,170,172, 179,203	19	-	-											
97	066-818	RESISTOR, C.F., 470 OHMS, 1/4W, 5%	R29,30,32,37, 62,75,81,99		8	8											
98	066-715	RESISTOR, C.F., 1.2K OHMS, 1/4W, 5%	R34	1	1	-											
99	066-814	RESISTOR, C.F., 270 OHMS, 1/4W, 5%	R24	1	1	1											
100	066-665	RESISTOR, C.F., 1K OHMS, 1/4W, 5%	R3,9,12,46,69,93, 110,111,114,116,119, 134,154,160,170,172, 179,203		8	-											
101																	
102	066-715	RESISTOR, C.F., 1.2K OHMS, 1/4W, 5%	R2,34	-	-	2											
103	066-824	RESISTOR, C.F., 1.5K OHMS, 1/4W, 5%	R135	1	1	1											
104	066-675	RESISTOR, C.F., 1.8K OHMS, 1/4W, 5%	R115,117,184	3	3	3											
105	066-826	RESISTOR, C.F., 2K OHMS, 1/4W, 5%	R2,94,98,147,159,208	6	6	-											
106	066-689	RESISTOR, C.F., 2.2K OHMS, 1/4W, 5%	R59,83,84,123	4	4	4											
107	066-666	RESISTOR, C.F., 2.7K OHMS, 1/4W, 5%	R60,145	2	2	2											
108	066-720	RESISTOR, C.F., 3.3K OHMS, 1/4W, 5%	R73,79	2	2	2											
109	066-822	RESISTOR, C.F., 910 OHMS, 1/4W, 5%	R3	-	-	1											
110	066-826	RESISTOR, C.F., 2K OHMS, 1/4W, 5%	R94,98,147,159,208	-	-	5											
111	066-665	RESISTOR, C.F., 1K OHM, 1/4W, 5%	R9,12,46,69,93,110, 111,114,116,119,134, 154,160,170,172,179, 203	-	-	17											
112																	
113	066-669	RESISTOR, C.F., 8.2K OHMS, 1/4W, 5%	R136	1	1	1											
114	066-830	RESISTOR, C.F., 10K OHMS, 1/4W, 5%	R4,31,35,40,109,151,185	7	7	7											
115	066-856	RESISTOR, C.F., 15K OHMS, 1/4W, 5%	R144	1	1	1											
116	066-846	RESISTOR, C.F., 30K OHMS, 1/4W, 5%	R76	1	1	1											
117	066-717	RESISTOR, C.F., 47K OHMS, 1/4W, 5%	R74,121	2	2	2											
118	066-849	RESISTOR, C.F., 100K OHMS, 1/4W, 5%	R112	1	1	1											
119																	
120																	
121																	
122																	
123																	

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM- 1401040 SHEET 4	REV L								
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01	02	-03									
124	062-840	RESISTOR, M.F., 82.5 OHMS, 1/8W, 1%	R166	1	1	1									
125	062-836	RESISTOR, M.F., 75 OHMS, 1/8W, 1%	R39	1	1	1									
126	062-856	RESISTOR, M.F., 124 OHMS, 1/8W, 1%	R124,209	2	2	2									
127															
128	062-863	RESISTOR, M.F., 147 OHMS, 1/8W, 1%	R18,19,52,53,71,104,156,173,174,202	10	10	10									
129	062-867	RESISTOR, M.F., 165 OHMS, 1/8W, 1%	R195	1	1	1									
130	062-876	RESISTOR, M.F., 215 OHMS, 1/8W, 1%	R149	1	1	1									
131	062-625	RESISTOR, M.F., 1.21K OHMS, 1/8W, 1%	R133,167	2	2	2									
132	062-881	RESISTOR, M.F., 261 OHMS, 1/8W, 1%	R25	1	1	1									
133	062-902	RESISTOR, M.F., 499 OHMS, 1/8W, 1%	R14,15	2	2	2									
134	062-911	RESISTOR, M.F., 634 OHMS, 1/8W, 1%	R131,132	2	2	2									
135	062-913	RESISTOR, M.F., 681 OHMS, 1/8W, 1%	R130	1	1	1									
136	062-920	RESISTOR, M.F., 866 OHMS, 1/8W, 1%	R16,17	2	2	2									
137	062-922	RESISTOR, M.F., 909 OHMS, 1/8W, 1%	R138	1	1	1									
138															
139															
140															
141	062-932	RESISTOR, M.F., 1.5K OHMS, 1/8W, 1%	R78,140	2	2	2									
142	066-454	RESISTOR, M.F., 1.91K OHMS, 1/8W, 1%	R88,89	2	2	2									
143	062-948	RESISTOR, M.F., 2.55K OHMS, 1/8W, 1%	R87,90	2	2	2									
144	062-952	RESISTOR, M.F., 2.87K OHMS, 1/8W, 1%	R139	1	1	1									
145	062-963	RESISTOR, M.F., 4.32K OHMS, 1/8W, 1%	R183	1	1	1									
146	042-378	RESISTOR, M.F., 8.25K OHMS, 1/8W, 1%	R182	1	1	1									
147															
148															
149	041-404	RESISTOR, COMP, 510 OHMS, 1/2W, 5%	R44,50	2	2	2									
150	058-339	RESISTOR, VAR., 500 OHMS, 3/4W, 5%	R26	1	1	1									
151	044-891	RESISTOR, VAR., 200 OHMS, 1/2W,	R22,66,200	3	3	3									
152	044-927	RESISTOR, VAR., 500 OHMS, 1/2W,	R64,141	2	2	2									
153	058-004	RESISTOR, VAR., 1K OHMS, 1/2W	R127	1	1	1									
154	044-943	RESISTOR, VAR., 2K OHMS, 1/2W,	R77	1	1	1									
155	058-473	RESISTOR, VAR., 1K OHMS, 1/2W, (FRONT MTG)	R1,125	2	2	2									
156															
157															
158	068-087	INDUCTOR, FIXED, 1.2uH	L5,10,15	3	3	3									
159															
160	068-046	INDUCTOR, FIXED, 33uH	L7	1	1	1									
161	068-091	INDUCTOR, FIXED, 2000uH	L11	1	1	1									
162	541-969	INDUCTOR, FIXED, 1.5uH	L6	1	1	1									
163	051-340	INDUCTOR, FIXED, 3.3uH	L9	1	1	1									
164	589-837	INTEGRATED CIRCUIT, SN74S00	A2,6	2	2	2									
165															
166	586-447	INTEGRATED CIRCUIT, UA3026	A15	1	1	1									
167	586-203	INTEGRATED CIRCUIT, UA3028	A5,14	2	2	2									
168	586-276	INTEGRATED CIRCUIT, CA3046	A9	1	1	1									

10-33



Assembly No. 1401040-03L. Equalizer PWA, No. 4, 525 Line (Non-Sync) (Option)



Schematic No. 1401042C
Equalizer PWA, No. 4,
525 Line (Non-Sync) (Option)

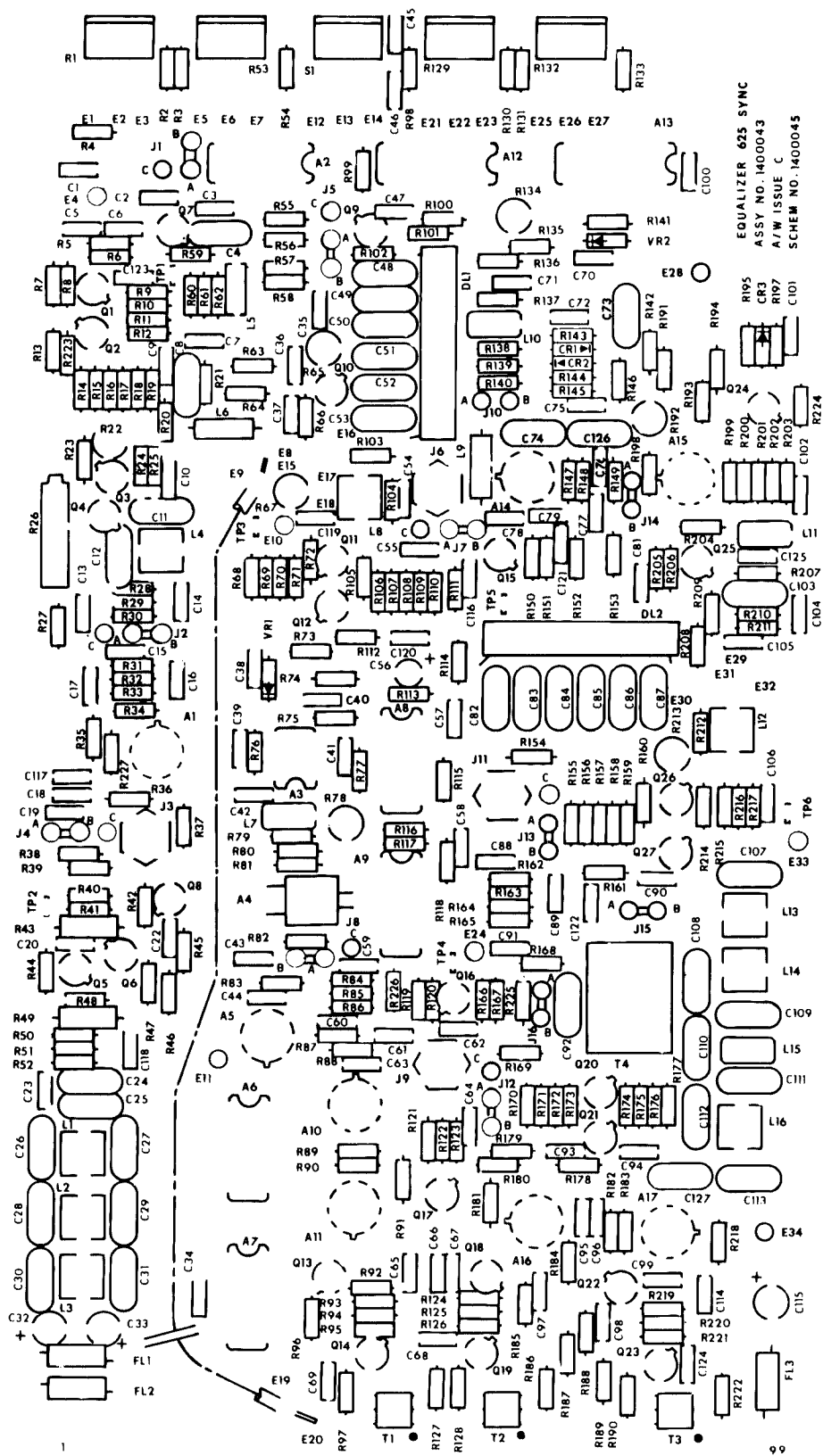
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02	-03	-04	-05					
1				-01	-01	-02	-02						
2													
3													
4	1400045	SCHEMATIC			A	B	C	F					
5	1400003-01	SHIELD			1	1	1	1					
6	1400004-01	HANDLE			1	1	1	1					
7	1400005-AD	LABEL			1	1	1	1					
8													
9	230-144	KNOB, CONTROL	REF: R1,53,129,132,134	5	5	1	1						
10	230-144	KNOB, CONTROL	REF: R1,53,129,132			4	4	4					
11	280-130	TRANSISTOR, MOUNTING HARDWARE	REF: Q1-27					27					
12	1374388-CC	INDUCTOR, VAR, .33uH	L14	1	1	1	1	1					
13	1374388-CE	INDUCTOR, VAR, .47uH	L16	1	1	1	1	1					
14	1374371-AP	INDUCTOR, VAR, .25uH	L8,12,13	3	3	3	3	3					
15	1374388-CA	INDUCTOR, VAR, .1uH	L1	1	1	1	1	1					
16	1374388-AA	INDUCTOR, VAR, 1.2uH	L2	1	1	1	1	1					
17	1374388-AD	INDUCTOR, VAR, 2.2uH	L3	1	1	1	1	1					
18	1374388-AJ	INDUCTOR, VAR, 5.6uH	L4	1	1	-	-	-					
19	1374188-01	INDUCTOR, FILTER	FL1,2,3	3	3	3	3	3					
20	1374388-AK	INDUCTOR, VARIABLE, 6.8uH	L4	-	-	1	1	1					
21													
22	1208744-01	DELAY LINE	DL 1,2	2	2	2	2	2					
23	1217042-10	TRANSFORMER, VAR.	T4	1	1	1	1	1					
24	570-435	TRANSFORMER, T41T	T1,2,3	3	3	3	3	3					
25													
26													
27													
28													
29	013-224	DIODE ZENER IN754	VR2	1	1	1	1	1					
30	013-983	DIODE ZENER IN752	VR1	1	1	1	1	1					
31	013-689	DIODE, IN3400 SELECT	CR1-3	3	3	3	3	3					
32													
33													
34	014-505	TRANSISTOR CD445, 2N3251	Q1,4,5,7,12,21,26	7	7	7	7	7					
35	014-581	TRANSISTOR 2N2369A	Q2,3,6,8,9,10,11,13,14-20,22-25,27	20	20	20	20	20					
36													
37													

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400043		SHEET 2		REV M					
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01	-02	-03	-04	-05							
38	037-892	CAPACITOR, TANT, DIPPED, 47uF 20V	C32,33,115			3	3	3	3						
39	037-790	CAPACITOR, TANT, DIPPED, 2.2uF, 20V	C56			1	1	1	1						
40															
41	034-215	CAPACITOR, MICA, 10pF, 500V, 1%	C103						1	1					
42	034-251	CAPACITOR, MICA, 39pF, 500V, 1%	C4												
43	034-251	CAPACITOR, MICA, 39pF, 500V, $\pm .5$ PF	C4,74					2	2	2					
44	056-679	CAPACITOR, MICA, 27pF, 500V, $\pm .5$ PF	C48-53,82-87						12	12					
45															
46															
47	034-935	CAPACITOR, MICA, 240pF, 500V, 5%	C8						1	1					
48	056-292	CAPACITOR, MICA, 500pF, 500V, 5%	C73						1	1					
49	056-150	CAPACITOR, MICA, 20pF, 500V, $\pm .5$ pF	C87												
50	034-259	CAPACITOR, MICA, 56pF, 500V, 1%	C11						1	1					
51	034-541	CAPACITOR, MICA, 62pF, 500V, 1%	C25,92			2	2	2	2	2					
52	034-285	CAPACITOR, MICA, 75pF, 500V, 1%	C112						1	1					
53	034-239	CAPACITOR, MICA, 130pF, 500V, 1%	C74,109			2									
54	034-224	CAPACITOR, MICA, 160pF, 500V, 1%	C113						1	1					
55	034-297	CAPACITOR, MICA, 180pF, 500V, 1%	C26						1	1					
56	034-221	CAPACITOR, MICA, 200pF, 500V, 1%	C110						1	1					
57	034-225	CAPACITOR, MICA, 220pF, 500V, 1%	C28						1	1					
58	034-250	CAPACITOR, MICA, 620pF, 500V, 1%	C30,107			2	2	2	2	2					
59	056-679	CAPACITOR, MICA, 27pF, 500V, $\pm .5$ pF	C48-53,82-86,103			1	12								
60	056-580	CAPACITOR, MICA, 12pF, 500V, $\pm .5$ pF	C27,126			2	2	2	2	2					
61	056-412	CAPACITOR, MICA, 36pF, 500V, $\pm .5$ pF	C12,29			2	2	2	2	2					
62	056-680	CAPACITOR, MICA, 43pF, 500V, $\pm .5$ pF	C31						1	1					
63	034-239	CAPACITOR, MICA, 130pF, 500V, 1%	C109						1	1					
64	034-252	CAPACITOR, MICA, 82pF, 500V, 1%	C74												
65	056-679	CAPACITOR, MICA, 27pF, 500V, $\pm .5$ pF	C48-53,82-87,103					12							
66															
67															
68	030-963	CAPACITOR, MONO, .1uF, 50V	C1-3,5-7,9,10,13-18,19,20,22,23,34-47,54,55,57-72,75-79,81,88-91,93-102,104,105,114,106,116-125			84	84	84	84	84					
69															
70															
71	066-810	RESISTOR, C.F., 10 OHM 1/4W, 5%	R57			1			1	1					
72	076-036	RESISTOR, C.F., 12 OHM 1/4W, 5%	R149			1			1	1					
73	066-834	RESISTOR, C.F., 33 OHM 1/4W, 5%	R7,12,44,47,71,106,159,167,174,178,216			11	11	11	11	11					
74	066-938	RESISTOR, C.F., 47 OHM 1/4W, 5%	R6,8,11,20,21,28,40,42,48,50,69,107,219,92,97,225-227,108,109,124,128,156,157,161,165,166,171,172,179,180,182,223,190,199,204,206,209,212			39	39	39	39	39					
75															
76	066-677	RESISTOR, C.F., 68 OHM, 1/4W, 5%	R46,96,187,189			4	4	4	4	4					
77	076-045	RESISTOR, C.F., 68 OHM, 1/4W, 5%	R41,83,86,87,120			5	5								
78	066-812	RESISTOR, C.F., 100 OHM, 1/4W, 5%	R9,37,66,93,122,125,145,152,198,211,217,220			12	12	12	12	12					
79															
80	066-663	RESISTOR, C.F., 220 OHM, 1/4W, 5%	R73			1			1	1					
81															

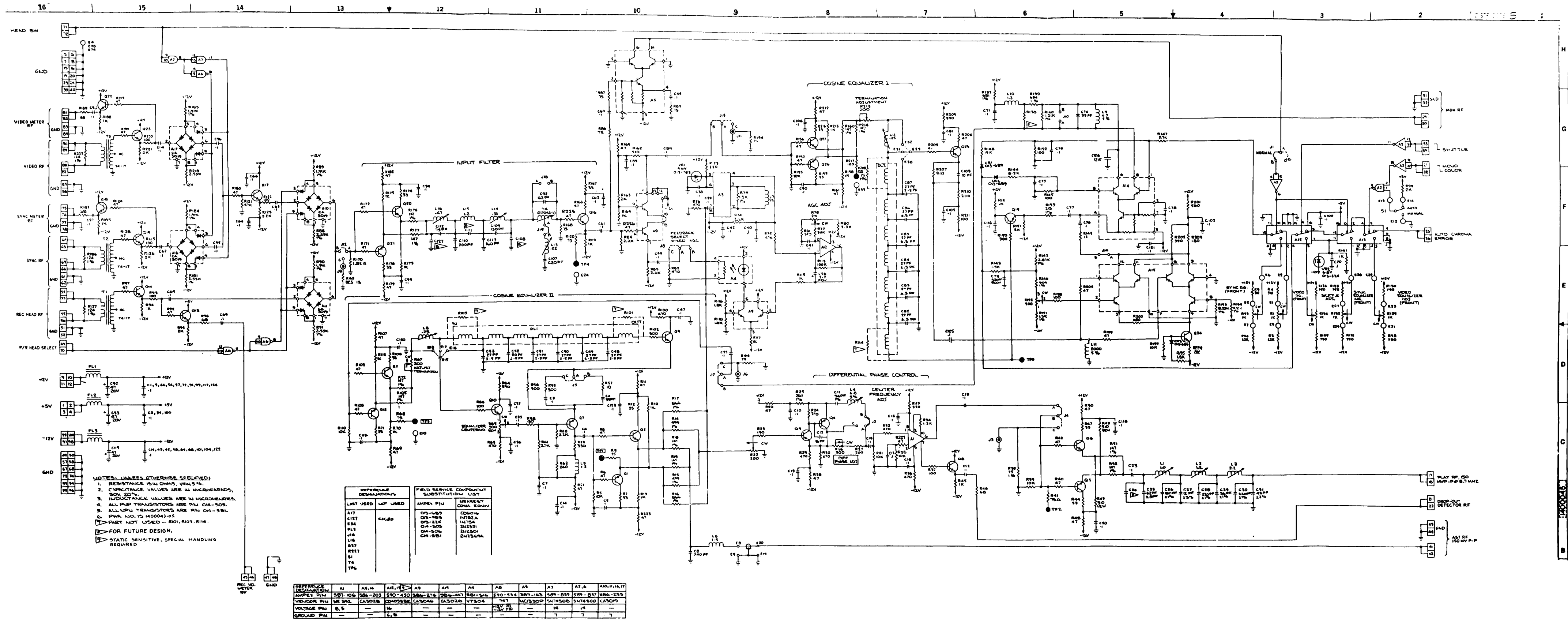
AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400043 SHEET 3	REV M								
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER											
				-01	-02	-03	-04	-05							
82	076-045	RESISTOR, C.F., 75 OHMS, 1/4W, 5% R41,68,83,86,87,120,168													
83															
84	066-813	RESISTOR, C.F., 150 OHM 1/4W, 5% R23,58	2	2	2	2	2								
85	076-004	RESISTOR, C.F., 180 OHM, 1/4W, 5% R203	1					1	1						
86	066-662	RESISTOR, C.F., 200 OHM, 1/4W, 5% R210,27,224	3	3	3	3	3								
87	066-859	RESISTOR, C.F., 240 OHM, 1/4W, 5% R62,81	2	2	2	2	2								
88	066-815	RESISTOR, C.F., 300 OHM, 1/4W, 5% R55,102,150,56	4	4	4	4	4								
89	066-838	RESISTOR, C.F., 330 OHM, 1/4W, 5% R33,59	2	2	2	2	2								
90	066-816	RESISTOR, C.F., 390 OHM, 1/4W, 5% R64,202,205	3	3	3	3	3								
91	066-818	RESISTOR, C.F., 470 OHM, 1/4W, 5% R29,30,32,36,63,76,82,100	8	8	8	8	8								
92	066-664	RESISTOR, C.F., 510 OHM, 1/4W, 5% R162	1					1	1						
93	066-839	RESISTOR, C.F., 560 OHM, 1/4W, 5% R201	1					1	1						
94	066-840	RESISTOR C.F., 680 OHM, 1/4W, 5% R200	1					1	1						
95	066-820	RESISTOR, C.F., 750 OHM, 1/4W, 5% R98,130,131,133,135,136	6	6	6	6	6								
96	066-665	RESISTOR, C.F., 1K OHM, 1/4W, 5% 112,117,119,164,173,175,45,158,215,141,188,185,94,115	20	20	20	20	20								
97															
98	066-715	RESISTOR, C.F., 1.2k OHM, 1/4W, 5% R34	1												
99	066-814	RESISTOR, C.F., 270 OHM, 1/4W, 5% R24	1						1						
100	066-819	RESISTOR, C.F., 620 OHM, 1/4W, 5% R207	1												
101	066-822	RESISTOR, C.F., 910 OHMS, 1/4W, 5% R207													
102	066-715	RESISTOR, C.F., 1.2K OHMS, 1/4W, 5% R2,34,54											3		
103	066-824	RESISTOR, C.F., 1.5K OHM, 1/4W, 5% R143	1										1		
104	066-675	RESISTOR, C.F., 1.8K OHM, 1/4W, 5% R116,118,195	3	3	3	3	3								
105	066-826	RESISTOR, C.F., 2K OHM, 1/4W, 5% R2,54,95,99,126,151,163,221	8	8	8	8	8								
106	066-689	RESISTOR, C.F., 2.2K OHM, 1/4W, 5% R60,84,85,123	4	4	4	4	4								
107	066-666	RESISTOR, C.F., 2.7K OHM, 1/4W, 5% R61,147	2	2	2	2	2								
108	066-720	RESISTOR, C.F., 3.3K OHM, 1/4W, 5% RR74,80	2	2	2	2	2								
109	066-665	RESISTOR, C.F., 1K OHM, 1/4W, 5% R10,13,45,70,94,111,112,115,117,119,141,158,164,173,175,185,188,215											18		
110															
111	066-822	RESISTOR, C.F., 910 OHMS, 1/4W, 5% R3,4,207											3		
112	066-826	RESISTOR, C.F., 2K OHMS, 1/4W, 5% R95,99,126,151,163,221											6		
113	066-669	RESISTOR, C.F., 8.2K OHM, 1/4W, 5% R144	1										1		
114	066-830	RESISTOR, C.F., 10K OHM, 1/4W, 5% R5,31,35,39,110,155,197	7	7	7	7	7						7		
115	066-856	RESISTOR, C.F., 15K OHM, 1/4W, 5% R148	1										1		
116	066-846	RESISTOR, C.F., 30K OHM, 1/4W, 5% R77	1										1		
117	066-717	RESISTOR, C.F., 47K OHM, 1/4W, 5% R75,121	2	2	2	2	2						2		
118	066-849	RESISTOR, C.F., 100K OHM, 1/4W, 5% R113	1										1		
119															
120															
121															
122															
123	062-836	RESISTOR, C.F., 75 OHMS, 1/8W, 1% R38,104,154											3		
124	062-840	RESISTOR, M.F., 82.5 OHM, 1/8W, 1% R169											1		
125	062-836	RESISTOR, M.F., 75 OHM, 1/8W, 1% R38,68,104,154,160													
126	062-856	RESISTOR, M.F., 124 OHM, 1/8W, 1% R127,186,222													

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400043 SHEET 4	REV M								
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER											
				-01	-02	-03	-04	-05							
127															
128	062-863	RESISTOR, M.F., 147 OHM, 1/8W, 1% R18,19,51,52,176, 177,72,105,160,214		10	10	10	10	10							
129	062-867	RESISTOR, M.F., 165 OHM, 1/8W, 1% R208		1	1	1	1	1							
130	062-876	RESISTOR, M.F., 215 OHM, 1/8W, 1% R153		1	1	1	1	1							
131	062-625	RESISTOR, M.F., 1.2K OHM, 1/8W, 1% R170		1	-	-	-	-							
132	062-881	RESISTOR, M.F., 261 OHM, 1/8W, 1% R25		1	1	1	1	1							
133	062-902	RESISTOR, M.F., 499 OHM, 1/8W, 1% R14,15		2	2	2	2	2							
134	062-911	RESISTOR, M.F., 634 OHM, 1/8W, 1% R138,139,140		3	-	-	-	-							
135	062-913	RESISTOR, M.F., 681 OHM, 1/8W, 1% R137		1	1	1	1	1							
136	062-920	RESISTOR, M.F., 866 OHM, 1/8W, 1% R16,17		2	2	2	2	2							
137	062-922	RESISTOR, M.F., 909 OHM, 1/8W, 1% R146		1	1	1	1	1							
138	062-911	RESISTOR, M.F., 634 OHM, 1/8W, 1% R138,139		1	2	-	-	-							
139	062-625	RESISTOR, M.F., 1.21K OHM, 1/8W, 1% R140,170			2	2	2	2							
140	062-932	RESISTOR, M.F., 1.5K OHMS, 1/8W, 1% R79,191		-	-	2	2	2							
141	062-932	RESISTOR, M.F., 1.5K OHM, 1/8W, 1% R91,79		2	2	-	-	-							
142	066-454	RESISTOR, M.F., 1.91K OHM, 1/8W, 1% R89,90,183,184		4	4	4	4	4							
143	062-948	RESISTOR, M.F., 2.55K OHM, 1/8W, 1% R88,91,181,218		4	4	4	4	4							
144	062-952	RESISTOR, M.F., 2.87K OHM, 1/8W, 1% R142		1	1	1	1	1							
145	062-963	RESISTOR, M.F., 4.32K OHM, 1/8W, 1% R194		1	1	1	1	1							
146	042-378	RESISTOR, M.F., 8.25K OHM, 1/8W, 1% R193		1	1	1	1	1							
147	062-911	RESISTOR, M.F., 634 OHMS, 1/8W, 1% R139		-	-	1	1	1							
148															
149	041-404	RESISTOR, COMP, 510 OHM, 1/2W, 5% R43,49		2	2	2	2	2							
150	058-339	RESISTOR, VAR, 500 OHM, 3/4W, 5% R26		1	1	1	1	1							
151	044-891	RESISTOR, VAR, 200 OHM, 1/2W, R22,67,213		3	3	3	3	3							
152	044-927	RESISTOR, VAR 500 OHM, 1/2W R65,192		2	2	2	2	2							
153	058-004	RESISTOR, VAR, 1K OHM, 1/2W R134		1	1	1	1	1							
154	044-943	RESISTOR, VAR, 2K OHM, 1/2W R78		1	1	1	1	1							
155	058-473	RESISTOR, VAR, 1K OHM, 1/2W, (FRONT MTG) R1,53,129,132		4	4	4	4	4							
156	540-070	INDUCTOR, FIXED, 4.7uH, ±5% L9		-	-	1	1	1							
157	051-340	INDUCTOR, FIXED, 3.3uH, ±5% L9				-	-	-							
158	068-087	INDUCTOR, FIXED, 1.2uH L5,10,15		3	3	3	3	3							
159	051-897	INDUCTOR, FIXED, 2.2uH L9		1	-	-	-	-							
160	068-046	INDUCTOR, FIXED, 39uH L7		1	1	1	1	1							
161	068-091	INDUCTOR, FIXED, 2000uH L11		1	1	1	1	1							
162	541-969	INDUCTOR, FIXED, 1.5uH L6		1	1	1	1	1							
163															
164	589-837	INTEGRATED CIRCUIT, SN74500 PRESTRESSED A2,6		2	2	2	2	2							
165	589-839	INTEGRATED CIRCUIT, SN74508 PRESTRESSED A7		1	1	1	1	1							
166	586-447	INTEGRATED CIRCUIT, UA3026 A15		1	1	1	1	1							
167	586-203	INTERGATED CIRCUIT, UA3028 A5,14		2	2	2	2	2							
168	586-276	INTEGRATED CIRCUIT, CA3046 A9		1	1	1	1	1							
169	586-255	INTEGRATED CIRCUIT, CA3019 A10,11,16,17		4	4	4	4	4							
170	587-163	INTEGRATED CIRCUIT, MC1330P A3		1	1	1	1	1							
171	587-106	INTEGRATED CIRCUIT, NE592 A1		1	1	1	1	1							

[illegible]



Assembly No. 1400043-05M. Equalizer PWA, No. 5, 625 Line (Option)




Schematic No. 1400045F.
Equalizer PWA, No. 4
625 Line (Sync) (Accessory)

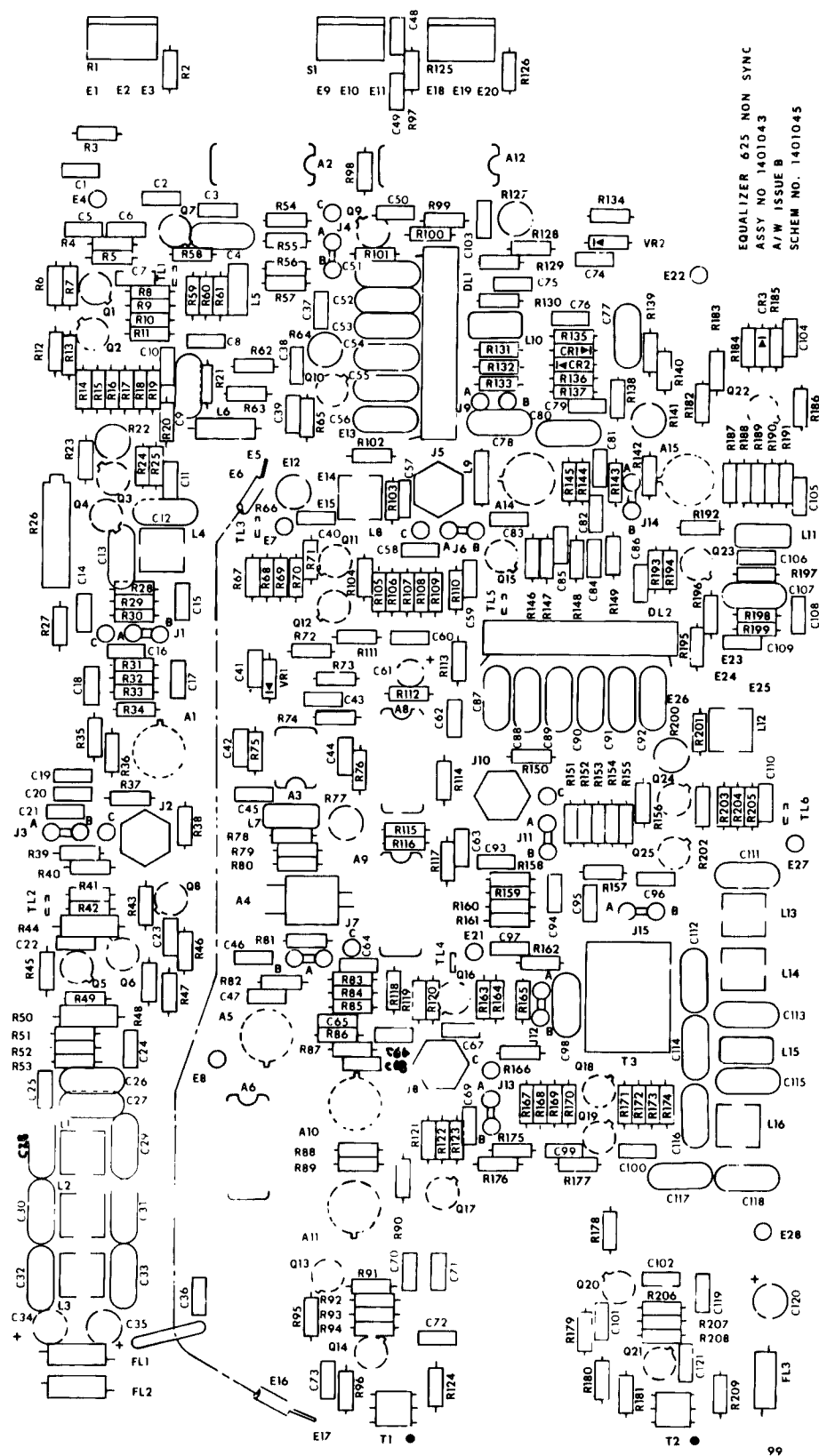
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01	-02										
1				-01											
2															
3	1401045	SCHEMATIC		(-)	C										
4															
5	1400003-01	SHIELD		1	1										
6	1400004-01	HANDLE		1	1										
7	1400005-AD	LABEL		1	1										
8															
9	230-144	KNOB, CONTROL	REF: R1,125	2	2										
10															
11															
12	1374388-CC	INDUCTOR, VAR., .33uH	L14	1	1										
13	1374388-CE	INDUCTOR, VAR., .47uH	L16	1	1										
14	1374371-AP	INDUCTOR, VAR., .25uH	L8,12,13	3	3										
15	1374388-CA	INDUCTOR, VAR., 1uH	L1	1	1										
16	1374388-AA	INDUCTOR, VAR., 1.2uH	L2	1	1										
17	1374388-AD	INDUCTOR, VAR., 2.2uH	L3	1	1										
18	1374388-AK	INDUCTOR, VAR., 6.8uH	L4	1	1										
19	1374188-01	INDUCTOR, FILTER	FL1,2,3	3	3										
20															
21															
22	1208744-01	DELAY LINE	DL1,2	2	2										
23	1217042-10	TRANSFORMER, VAR.	T3	1	1										
24	570-435	TRANSFORMER, T4IT	T1,2	2	2										
25															
26															
27															
28															
29	013-224	DIODE, ZENER, (1N754)	VR2	1	1										
30	013-983	DIODE, ZENER, (1N752)	VR1	1	1										
31	013-689	DIODE (1N4007)	CR1-3	3	3										
32															
33															
34	014-505	TRANSISTOR, CD445, PNP (1N5451)	Q1,4,5,7,12,19,24	7	7										
35	014-581	TRANSISTOR, (2N2369A) NPN	Q2,3,6,8,9,10,11,13,14-18,20-23,25	18	18										
36															
37	280-130	PAD, TRANSISTOR, MOUNTING	REF: Q1-25	25	25										

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1401043	SHEET 2	REV H										
ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER													
					-01	-02												
38	037-892		CAPACITOR, TANT., DIPPED, 47uF, 20V C34,35,120		3	3												
39	037-790		CAPACITOR, TANT., DIPPED, 2.2uF, 20V C61		1	1												
40																		
41																		
42	034-251		CAPACITOR, MICA, 39pF, 500V, 1% C4,78		2	2												
43	034-215		CAPACITOR, MICA, 10pF, 500V, 1% C107		1	1												
44																		
45																		
46																		
47	034-935		CAPACITOR, MICA, 240pF, 500V, 5% C9		1	1												
48	056-292		500pF, 500V, 5% C77		1	1												
49																		
50	034-259		56pF, 500V, 1% C12		1	1												
51	034-541		62pF C27,98		2	2												
52	034-285		75pF C116		1	1												
53	034-239		130pF C113		1	1												
54	034-224		160pF C118		1	1												
55	034-297		180pF C28		1	1												
56	034-221		200pF C114		1	1												
57	034-225		220pF C30		1	1												
58	034-250		620pF, 500V, 1% C32,111		2	2												
59	056-679		27pF 500V, $\pm .5pF$ C51-56,87-92		12	12												
60	056-580		12pF C29,80		2	2												
61	056-412		36pF C13,31		2	2												
62	056-680		CAPACITOR, MICA, 43pF, 500V, $\pm .5pF$ C33		1	1												
63																		
64																		
65																		
66																		
67																		
68	030-963		CAPACITOR, MONO., .1uF, 50V C1-3,5-8,10,11,14-25,36-42,43,44-50,57-60,62-76,79,81-86,93-97,99-106,108-110,119,121		79	79												
69																		
70																		
71	066-810		RESISTOR, C.F., 10 OHMS, 1/4W, 5% R56		1	1												
72	076-036		12 OHMS, R143		1	1												
73	066-834		33 OHMS, R6,11,45,48,70,105,155,164,171,177,204		11	11												
74	066-938		47 OHMS, 1/4W, 5% R5,7,10,13,20,21,28,36,41,43,49,51,68,91,96,106-108,118,152,153,157,161,163,165,168,169,175,176,178,181,187,192,194,196,201,206		37	37												
75																		
76	066-677		68 OHMS, 1/4W, 5% R47,95,180		3	3												
77	076-045		75 OHMS, 1/4W, 5% R8,42,67,82,85,86,103,120,150,162		10	10												
78	066-812		RESISTOR, C.F., 100 OHMS, 1/4W, 5% R38,65,92,122,137,142,148,199,205,207		10	10												
79																		

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM- 1401043 SHEET 3	RTV H								
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				0	-02										
80	066-663	RESISTOR, C.F., 220 OHMS, 1/4W, 5%	R72		1										
81															
82															
83	066-822	RESISTOR, C.F., 910 OHMS, 1/4W, 5%	R197	1	-										
84	066-813	↑ ↑ 150 OHMS, ↑ ↑	R23,57	2	2										
85	076-004	180 OHMS,	R191	1	1										
86	066-662	200 OHMS,	R27,186,198	3	3										
87	066-859	240 OHMS,	R61,80	2	2										
88	066-815	300 OHMS,	R54,55,101,146	4	4										
89	066-838	330 OHMS,	R33,58	2	2										
90	066-816	390 OHMS,	R63,190,193	3	3										
91	066-818	470 OHMS,	R29,30,32,62,75,81,99,37	8	8										
92	066-664	510 OHMS,	R158	1	1										
93	066-839	560 OHMS,	R189	1	1										
94	066-840	680 OHMS,	R188	1	1										
95	066-820	↓ ↓ 750 OHMS, ↓ ↓	R97,126,128,129	4	4										
96	066-665	RESISTOR, C.F., 1K OHMS, 1/4W, 5%	R3,9,12, 46,69,93, 110,111,114,116,119, 134,154,160,170,172, 179,203	8	-										
97	066-822	RESISTOR, C.F., 910 OHMS, 1/4W, 5%	R3,197	-	2										
98	066-715	RESISTOR, C.F., 1.2K OHMS, 1/4W, 5%	R34	1	-										
99	066-814	RESISTOR, C.F., 270 OHMS, 1/4W, 5%	R24	1	1										
100	066-665	RESISTOR, C.F., 1K OHMS, 1/4W, 5%	R9,12,46,69,93,110,111, 114,116,119,134,154, 160,170,172,179,203	+	17										
101															
102	066-715	RESISTOR, C.F., 1.2K OHMS, 1/4W, 5%	R2,34	-	2										
103	066-824	RESISTOR, C.F., 1.5K OHMS, 1/4W, 5%	R135	1	1										
104	066-675	↑ ↑ 1.8K OHMS, ↑ ↑	R115,117,184	3	3										
105	066-826	2K OHMS,	R2,94,98,147,159,208	6	-										
106	066-689	2.2K OHMS,	R59,83,84,123	4	4										
107	066-666	↓ ↓ 2.7K OHMS, ↓ ↓	R60,145	2	2										
108	066-720	RESISTOR, C.F., 3.3K OHMS, 1/4W, 5%	R73,79	2	2										
109	066-826	RESISTOR, C.F., 2K OHMS, 1/4W, 5%	R94,98,147,159,208	-	5										
110															
111															
112															
113	066-669	RESISTOR, C.F., 8.2K OHMS, 1/4W, 5%	R136	1	1										
114	066-830	↑ ↑ 10K OHMS, ↑ ↑	R4,31,35,40,109,151, 185	7	7										
115	066-856	15K OHMS,	R144	1	1										
116	066-846	30K OHMS,	R76	1	1										
117	066-717	↓ ↓ 47K OHMS, ↓ ↓	R74,121	2	2										
118	066-849	RESISTOR, C.F., 100K OHMS, 1/4W, 5%	R112	1	1										
119															
120															
121															
122															
123															

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIAL	LM-1401043 SHEET 4		REV H									
ITEM NO.	PART NUMBER	DESCRIPTION			REF DESIG	QTY REQD PER DASH NUMBER											
						-01	-02										
124	062-840	RESISTOR, M.F., 82.5 OHMS, 1/8W, 1%			R166	1	1										
125	062-836	75 OHMS,			R39	1	1										
126	062-856	124 OHMS,			R124,209	2	2										
127																	
128	062-863	147 OHMS,			R18,19,52,53,71,104, 156,173,174,202	10	10										
129	062-867	165 OHMS,			R195	1	1										
130	062-876	215 OHMS,			R149	1	1										
131	062-625	1.21K OHMS,			R133,167	2	2										
132	062-881	261 OHMS,			R25	1	1										
133	062-902	499 OHMS,			R14,15	2	2										
134	062-911	634 OHMS,			R132	1	1										
135	062-913	681 OHMS,			R130	1	1										
136	062-920	866 OHMS,			R16,17	2	2										
137	062-922	RESISTOR, M.F., 909 OHMS, 1/8W, 1%			R138	1	1										
138																	
139																	
140																	
141	062-932	RESISTOR, M.F., 1.5K OHMS, 1/8W, 1%			R78,140	2	2										
142	066-454	1.91K OHMS,			R88,89	2	2										
143	062-948	2.55K OHMS,			R87,90	2	2										
144	062-952	2.87K OHMS,			R139	1	1										
145	062-963	4.32K OHMS,			R183	1	1										
146	042-378	RESISTOR, M.F., 8.25K OHMS, 1/8W, 1%			R182	1	1										
147																	
148																	
149	041-404	RESISTOR, COMP., 510 OHMS, 1/2W, 5%			R44,50	2	2										
150	058-339	RESISTOR, VAR., 500 OHMS, 3/4W, 5%			R26	1	1										
151	044-891	200 OHMS, 1/2W			R22,66,200	3	3										
152	044-927	500 OHMS, 1/2W			R64,141	2	2										
153	058-004	1K OHMS, 1/2W,			R127	1	1										
154	044-943	2K OHMS, 1/2W			R77	1	1										
155	058-473	RESISTOR, VAR., 1K OHMS, 1/2W (FRONT MTG.)			R1,125	2	2										
156																	
157																	
158	068-087	INDUCTOR, FIXED, 1.2uH			L5,10,15	3	3										
159																	
160	068-046	INDUCTOR, FIXED, 39uH			L7	1	1										
161	068-091	INDUCTOR, FIXED, 2000uH			L11	1	1										
162	541-969	INDUCTOR, FIXED, 1.5uH			L6	1	1										
163	540-070	INDUCTOR, FIXED, 4.7uH, ±5%			L9	1	1										
164	589-837	INTEGRATED CIRCUIT, SN74S00 PRESTRESSED			A2,6	2	2										
165																	
166	586-447	INTEGRATED CIRCUIT, UA3026			A15	1	1										
167	586-203	INTEGRATED CIRCUIT, UA3028			A5,14	2	2										
168	586-276	INTEGRATED CIRCUIT, CA3046			A9	1	1										

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1401043 SHEET 5	RFV H										
ITEM NO.	PART NUMBER	DESCRIPTION			REF DESIG	QTY REQD PER DASH NUMBER											
						-01	-02										
169	586-255	INTEGRATED CIRCUIT, CA3019			A10,11	2	2										
170	587-163	MC1330P			A3	1	1										
171	587-106	NE592			A1	1	1										
172	581-516	VBL504			A4	1	1										
173	590-534	F747 PRESTRESSED			A8	1	1										
174	590-450	INTEGRATED CIRCUIT, CD4053 PRESTRESSED			A12	1	1										
175																	
176																	
177	615-004	WIRE, BARE, 24 AWG			A/R	A/R											
178	600-232	SLEEVING, CLEAR TEFLON			A/R	A/R											
179	120-639	SWITCH			S1	1	1										
180	143-981	CONNECTOR, JACK P.C. TIP			REF: J1,3,4,6,7,11,13-(A,B,C) J9,12,14,15-(A,B)	29	29										
181	187-259	TERMINAL LUG			TL1-6	6	6										
182	139-037	SELECTRO, JACKS			J2,5,8,10	4	4										
183	302-395	CABLE, STRAP				1	1										
184		WIRE, HOOK-UP, 24 AWG			A/R	A/R											
185	602-044	PLUG, SHORTING			J1,3,4,6,7	5	5										
186	616-569	CABLE, COAX, 75 OHM			A/R	A/R											
187																	
188	283-105	SPACER, PLAIN, .140 I.D. X .250 O.D. X .125 LG				1	1										
189	473-325	SCREW, MACHINE, PAN HD., XREC, 4-40 X .312 LG				5	-										
190	471-063	SCREW, MACHINE, PAN HD., XREC, 4-40 X .438 LG				1	1										
191	501-169	WASHER, SMALL PATTERN #4				5	-										
192	502-002	WASHER, LOCK #4				1	1										
193	474-500	SCREW, MACH., PAN HD, XREC, 4-40x.312					5										
194	1400262-01	BRACKET, GEN. PURPOSE			REF:S1,R1,65	3	3										
195	460-055	RIVET, .088 DIA X .156 LG				6	6										
196	506-011	WASHER, BOWED				1	1										
197		SLEEVING, SHRINK, CLEAR			REF: FL1-3	A/R	A/R										
198		FUTURE DESIGN: DO NOT INSTALL C26,112,115,117; R100,102,113,131															
NOTE:  STATIC SENSITIVE; SPECIAL HANDLING REQUIRED																	



Assembly No. 1401043-02H. Equalizer PWA, No. 4, 625 Line (Non-Sync) (Option)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER						
				-01	-02	-03	-04	-05	-06	-07
1										
2										
3										
4	1401052	SCHEMATIC		(-)	A	B	C	D	E	G
5										
6										
7	1400003-01	SHIELD		1	1	1				1
8	1400004-01	HANDLE		1	1	1	1			1
9	1400005-AE	LABEL		1	1	1	1			1
10										
11										
12	230-144	KNOB, CONTROL	REF R64	1		1	1			1
13										
14	051-770	INDUCTOR, FILTER	FL1-4	1	1	4	4	4	4	4
15										
16										
17	1374388-AE	INDUCTOR, VAR., 2.7uH	L5	1		1	1			1
18	1374388-AF	INDUCTOR, VAR., 3.3uH	L6,8	2	2	2	2	2	2	2
19	1374388-AN	INDUCTOR, VAR., 12.0 uH	L3	1		1	1			1
20	1374388-AP	INDUCTOR, VAR., 15.0 uH	L1	1		1	1			1
21	1374371-AM	INDUCTOR, VAR., SPECIAL, 12.8uH	L2	1		1	1			1
22										
23	1379491-AE	TRANSFORMER, VARIABLE, 32.2uH	T3,4	2	2	2	2	2	2	2
24	1379491-AG	TRANSFORMER, VARIABLE, 38.0uH	T2	1		1	1	1	1	1
25										
26										
27	013-224	DIODE, ZENER, 6.8V, 1N754A	VR1			1	1	1	1	1
28										
29										
30	013-723	DIODE, SWITCHING, FD777	CR4	1		1	1	1	1	1
31	013-689	DIODE, CD6016, 1N3400 SELECT	CR1-3,5,6	5	5	5	5	5	5	5
32										
33										
34										
35	014-247	TRANSISTOR, 2N2219	Q45	1		1	1	1	1	1
36	014-364	TRANSISTOR, CD438, 2N2905A	Q46	1		1	1	1	1	1
37										




AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1401050	SHEET 2	REV N					
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER									
				-01	-02	-03	-04	-05	-06	-07			
38													
39													
40	014-581	TRANSISTOR, 2N2369	Q6,14,15	3	3	3	3	3	3	3			
41	014-597	TRANSISTOR, 2N3905	Q10	1	1	1	1	1		1			
42	014-600	TRANSISTOR, 2N2946	Q33	1	1	1	1	1		1			
43	014-738	TRANSISTOR, CD558	Q4,5	2	2	2	2	2	2	2			
44	014-852	TRANSISTOR, DUAL, MD2369	Q1,3,30,40	4	4	4	4	4	4	4			
45	014-576	TRANSISTOR, 2N2784	Q2	1	1	1	1	1		1			
46	580-453	TRANSISTOR, F.E.T., 2N5639	Q8,9,26,42	4	4	4	4	4	4	4			
47													
48	014-859	TRANSISTOR, 2N4208	Q38	1	1	1	1	1		1			
49	014-505	TRANSISTOR, CD445 2N 2457	Q7,16,20,28,31,35,41,43,47	9	9	9	9	9	9	9			
50	014-506	TRANSISTOR, CD446 2N 2561	Q11-13,17-19,21-25,27,29,32,34,36 37,39,44,48	20	20	20	20	20	20	20			
51	580-804	DUAL HEATSINK	REF: Q4,5,37,38	2	2	2	2	2	2	2			
52	014-613	HEATSINK	REF: Q45,46	2	2	2	2	2	2	2			
53	087-388	COMPOUND, HEATSINK	REF: Q4,5,37,38,45,46,A6	A/R	A/R	A/R	A/R	A/R	A/R	A/R			
54													
55	037-954	CAPACITOR, TANT, DIPPED, 22uF, 15V	C61								1		
56	037-591	CAPACITOR, TANT, DIPPED, 1.0uF, 35V	C31,33	2	2	2							
57	037-908	CAPACITOR, TANT, DIPPED, 4.7uF, 35V	C23,24,124,125	4	4	4	4	4	4	4	4		
58	037-812	CAPACITOR, TANT, DIPPED, 10 uF, 25V	C26,95	2	2	2	2	2	2	2	2		
59	037-893	CAPACITOR, TANT, DIPPED, 15 uF, 20V	C38,105,108,121,123	5	5	5	5	5	5	5	5		
60	037-892	CAPACITOR, TANT, DIPPED, 47 uF, 20V	C22,53,56,82,116,126	5	6	6	6	5	6	6	6		
61	037-901	CAPACITOR, TANT, DIPPED, 100uF, 20V	C16	1	1	1	1	1			1		
62	030-963	CAPACITOR, MONO., .1uF, 100V, ±10%	C1,6,8-14,21,25,28,29,30,32,34,37,39,41,43,48-52,62,64,66,71,73,74,87-94,96,104,109,110,113,117,122,130,115,120	49	49	49	49	49	49	49	49		
63													
64													
65													
66	064-314	CAPACITOR, MONO, 1.0uF,50V,	C15,31,33,42,44-47,63							9	9		
67	064-314	CAPACITOR,MONO, 1.00F,50V,C15,31,33,42,44-47,61,63,					10	10					
68	064-314	CAPACITOR, MONO., 1.0uF, 50V	C15,42,44-47,61,63	8	8	8							
69													
70													
71	035-814	CAPACITOR, MYLAR, .033uF, 50V, ±5%	C65		1	1	1				1		
72	035-598	CAPACITOR, MYLAR, .047uF, 50V, ±5%	C72		1	1	1				1		
73													
74													
75	038-248	CAPACITOR, VAR., 15-60pF, 500V	C83,131	2	2	2	2	2	2	2	2		
76													
77													
78													
79	034-532	CAPACITOR, MICA, 1.0pF, 500V, ±5pF	C5			1	1				1		
80	034-157	CAPACITOR, MICA, 2.0pF, 500V, ±5pF	C2,57,60	3	3	3	3	3	3	3	3		
81	034-345	CAPACITOR, MICA, 3.0pF, 500V, ±5PF	C20			1	1				1		
82	034-156	CAPACITOR, MICA 5.0pF, 500V, ±5pF	C3			1	1				1		

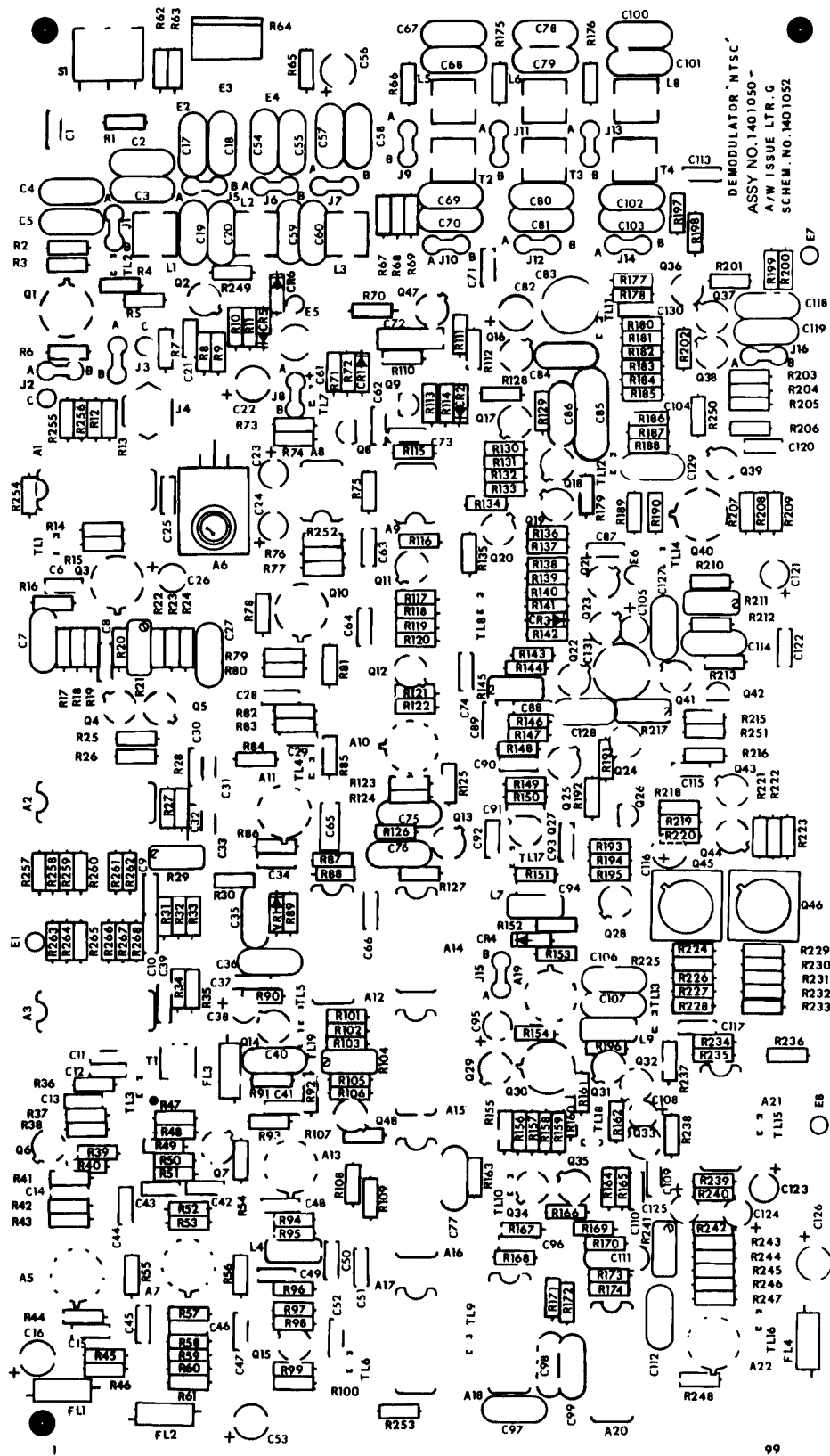
AMPEX		CODE IDENT NO 92739		LIST OF MATERIALS		LM-1401050		SHEET 3 OF 9		REV N	
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER							
				-01	-02	-03	-04	-05	-06	-07	
83											
84											
85	056-022	CAPACITOR, MICA., 6.8pF, $\pm .5$ pF, 500V	C79	1		1	1	1		1	
86	056-388	8.2pF, \uparrow	C17	1		1	1	1		1	
87	034-759	15pF, \uparrow	C54	1		1	1	1		1	
88	034-215	10pF	C97,98	2	2	2	2	2	2	2	
89											
90	056-140	20pF	C59,68,100,84	4	4	4	4	4	4	4	
91	056-164	22pF	C114	1		1	1	1	1	1	
92	034-360	24pF	C19,70	2	2	2	2	2	2	2	
93	034-688	30pF	C80,102	2	2	2	2	2	2	2	
94	056-412	36pF	C107			1	1	1	1	1	
95		\downarrow									
96	056-603	47pF, $\pm .5$ pF	C127	1	1	1	1	1	1	1	
97											
98	034-248	50pF, $+1\%$	C7,27	2	2	2	2	2	2	2	
99	034-918	68pF \uparrow	C58	1	1	1	1	1	1	1	
100	034-285	75pF	C107	1	1	-	-	-	-	-	
101	034-252	82pF	C4,128	2	2	2	2	2	2	2	
102											
103											
104	034-367	91pF	C40	1	1	1	1	1	1	1	
105	034-219	120pF	C36,76	2	-	-	-	-	-	-	
106	034-224	160pF	C18	1	1	1	1	1	1	1	
107	034-297	180pF	C55	1	1	1	1	1	1	1	
108	034-225	220pF	C99	1	1	1	1	1	1	1	
109	034-219	120pF	C36,76,106		3	3	3	3	3	3	
110											
111	034-543	240pF	C106		-	-	-	-	-	-	
112	034-919	270pF	C111	1	1	1	1	1	1	1	
113	034-287	300pF	C112	1	1	1	1	1	1	1	
114	034-253	330pF	C35	1	1	1	1	1	1	1	
115	034-241	360pF	C86,101	2	2	2	2	2	2	2	
116											
117											
118	056-290	430pF	C67,78	2	2	2	2	2	2	2	
119	056-291	470pF \downarrow	C75			1	1	1	1	1	
120	056-216	500pF, $+1\%$ \downarrow	C77			1	1	1	1	1	
121	056-766	CAPACITOR, MICA, 739pF, $\pm .25\%$, 500V	C119			1	1	1	1	1	
122						-	-	-	-	-	
123	034-329	CAPACITOR, MICA, 1000pF, $+1\%$, 500V	C85			1	1	1	1	1	
124											
125											
126											
127											

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1401050	SHEET 4	REV N		
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER						
				-01	-02	-03	-04	-05	-06	-07
128	066-810	RESISTOR, C.F., 10 OHMS, 1/4W, 5%	R71, 182, 207	3	3	3	3	3	3	3
129	076-038	16 OHMS,	R17, 24	2	2	2	2	2	2	2
130	066-834	33 OHMS,	R5, 38, 50, 98	4	4	4	4	4	4	4
131	066-938	47 OHMS,	R8, 19, 22, 25, 26, 37, 39, 49, 51, 79-81, 84, 93, 99, 117, 188, 192, 199, 200, 202, 204, 206, 220, 223	25	25	25	25	25	25	25
132										
133										
134	076-045	75 OHMS,	R100, 190	2	2	2	2	2	2	2
135	066-718	5.6K OHMS,	R133	1	1	1	1	1	1	1
136	066-815	300 OHMS,	R177	1	1	1	1	1	1	1
137										
138										
139										
140	066-814	270 OHMS	R187	1	1	1	1	1	1	1
141	066-872	360 OHMS	R6	1	1	1	1	1	1	1
142										
143	066-821	820 OHMS	R152	1	1	1	1	1	1	1
144										
145	066-665	1K OHMS	R40, 42, 48, 52, 75, 76, 78, 91, 96, 116, 118, 129, 140, 169, 180, 196, 237, 239, 240, 181	20	20	20	20	20	20	20
146										
147	066-715	1.2K OHMS	R73, 77, 186, 219, 222	5	5	5	5	5	5	5
148	066-824	1.5K OHMS	R120, 128, 213	3	3	3	3	3	3	3
149	066-675	1.8K OHMS	R179, 238	2	2	2	2	2	2	2
150	066-813	150 OHMS	R218, 221, 249	3	3	3	3	3	3	3
151	066-820	750 OHMS	R246, 247	2	2	2	2	2	2	2
152										
153	066-689	2.2K OHMS	R107, 108, 137, 193	4	4	4	4	4	4	4
154										
155										
156										
157	066-666	2.7K OHMS	R65, 102	2	2	2	2	2	2	2
158	066-720	3.3K OHMS	R88, 109, 132, 155, 168, 173	6	6	6	6	6	6	6
159	066-827	3.9K OHMS	R135, 141, 153	3	3	3	3	3	3	3
160	066-828	4.3K OHMS	R54	1	1	1	1	1	1	1
161										
162										
163										
164										
165	066-829	6.8K OHMS	R103, 172	2	2	2	2	2	2	2
166	066-711	7.5K OHMS	R83	1	1	1	1	1	1	1
167	066-669	8.2K OHMS	R119, 63	2	2	2	2	2	2	2
168	066-670	9.1K OHMS	R248	1	1	1	1	1	1	1
169	066-819	620 OHMS	R20, 254-268	16	16	16	16	16	16	16
170	066-831	11K OHMS	R234, 236	2	2	2	2	2	2	2
171	066-712	22K OHMS	R1, 235	2	2	2	2	2	2	2
172	066-830	RESISTOR, C.F., 10K OHMS, 1/4W, 5%	R70, 136, 156, 167, 171, 174, 191, 194	8	8	8	8	8	8	8

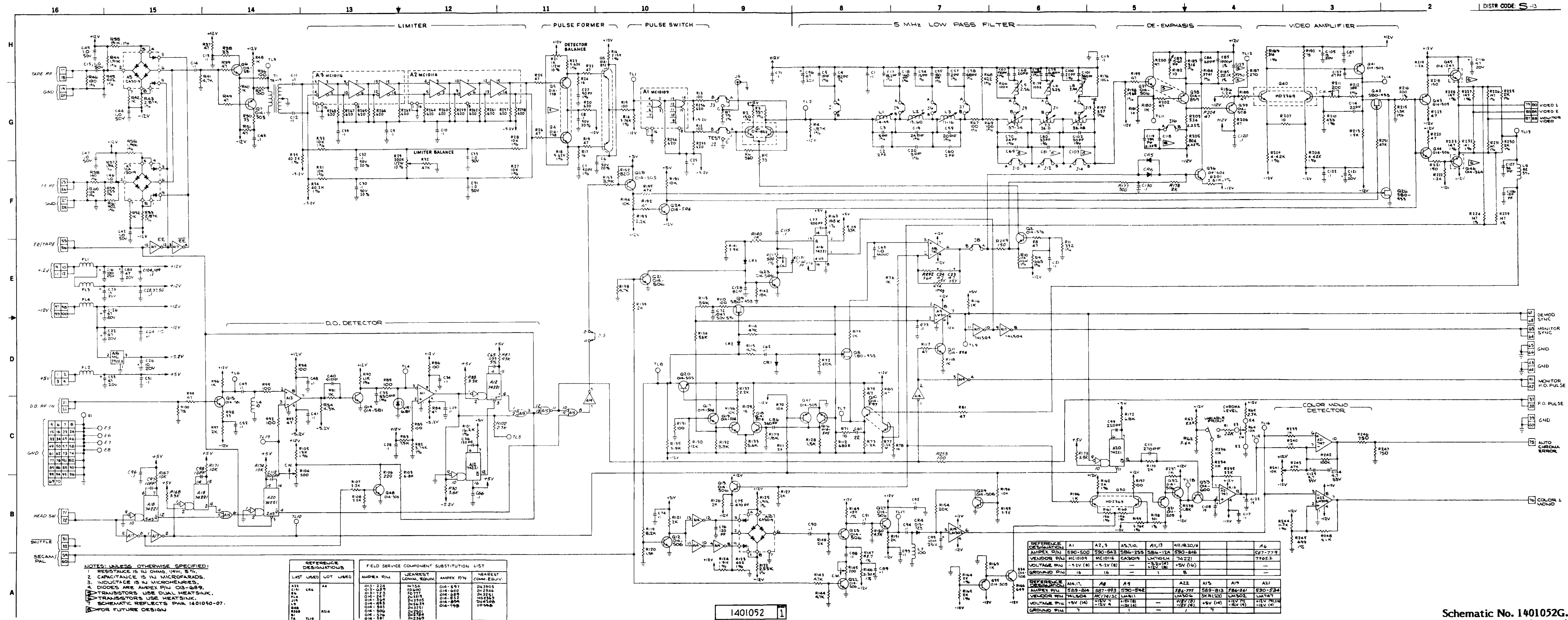
AMPEX Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1401050 SHEET 5	REV N					
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER						
				-01	-02	-03	-04	-05	-06	-07
173	066-865	RESISTOR, C.F., 12K OHMS, 1/4W, 5% R130,		1	1	1	1	1	1	1
174		↑ ↑ ↑ ↑								
175										
176	066-832	18K OHMS, R142		1	1	1	1	1	1	1
177	066-848	43K OHMS, R87		1	1	1	1	1	1	1
178	066-873	20K OHMS, R154		1	1	1	1	1	1	1
179										
180										
181	066-833	56K OHMS R113,134		2	2	2	2	2	2	2
182	066-849	100K OHMS R66,175,176,242		4	4	4	4	4	4	4
183	066-652	470K OHMS R72		1	1	1	1	1	1	1
184	076-013	680K OHMS R112		1	1	1	1	1	1	1
185	066-673	RESISTOR, C.F., 1 MEG, 1/4W, 5% R74		1	1	1	1	1	1	1
186	062-820	RESISTOR, M.F., 48.7 OHMS, 1/8W, 1% R147		1	1	1	1	1	1	1
187	062-836	75 OHMS, R7		1	1	1	1	1	1	1
188	062-847	100 OHMS R46,67,69,212		4	4	4	4	4	4	4
189	062-856	124 OHMS R60		1	1	1	1	1	1	1
190	062-861	140 OHMS R58		1	1	1	1	1	1	1
191	062-863	147 OHMS R224,226-229,231-233		8	8	8	8	8	8	8
192										
193										
194	062-864	150 OHMS R2		1	1	1	1	1	1	1
195	066-654	174 OHMS R10		1	1	1	1	1	1	1
196	062-873	196 OHMS R160,161		2	2	2	2	2	2	2
197	062-874	200 OHMS R216		1	1	1	1	1	1	1
198										
199										
200										
201	066-511	255 OHMS R59		1	1	1	1	1	1	1
202	062-884	301 OHMS R158		1	1	1	1	1	1	1
203										
204	062-887	332 OHMS R11		1	1	1	1	1	1	1
205	062-886	316 OHMS R183,189		2	2	2	2	2	2	2
206										
207	062-902	499 OHMS R245		1	1	1	1	1	1	1
208	062-889	357 OHMS R3,197		2	2	2	2	2	2	2
209	062-898	432 OHMS R210		1	1	1	1	1	1	1
210										
211	062-894	402 OHMS R45,61,123		3	3	3	3	3	3	3
212	062-897	422 OHMS R68		1	1	1	1	1	1	1
213										
214	062-912	649 OHMS R166		1	1	1	1	1	1	1
215	066-180	665 OHMS R9		1	1	1	1	1	1	1
216	062-928	RESISTOR, M.F., 1.1K OHMS, 1/8W, 1% R90		1	1	1	1	1	1	1
217										

AMPEX		CODE IDENT NO. 92739		LIST OF MATERIALS		LM-1401050		SHEET 6		REV N		
ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER							
					-01	-02	-03	-04	-05	-06	-07	
218	062-599		RESISTOR, M.F., 1.3K OHMS, 1/8W, 1% R215		1		2		1		1	
219	062-932	↑	1.5K OHMS, R149		1		2		1		1	
220	066-161	↑	1.87K OHMS, R4		1		1		1		1	
221	066-454	↑	1.91K OHMS, R44,55,56,57,124,125		5	6	6	6	6	6	6	
222	062-643	↑	2.0K OHMS, R162,164,165,225,230		5	5	5	5	5	5	5	
223	066-193	↑	2.15K OHMS, R16		1		1		1		1	
224	062-943	↑	2.32K OHMS, R146		1		1		1		1	
225	076-157	↑	1.96K OHMS, R198		1		1		1		1	
226	062-948	↑	2.55K OHMS, R122		1		1		1		1	
227	062-952	↑	2.87K OHMS, R43,53		2	2	2	2	2	2	2	
228	062-958	↑	3.74K OHMS, R14,82,184		3	3	3	3	3	3	3	
229	066-435	↑	4.42K OHMS, R208,209		2	2	2	2	2	2	2	
230	062-972	↑	5.62K OHMS, R18,23		2	2	2	2	2	2	2	
231	062-973	↑	5.76K OHMS, R159		1		1		1		1	
232	066-442	↑	10.5K OHMS, R163				1		1		1	
233	066-925	↑	22.1K OHMS, R185				1		1		1	
234	066-736	↑	9.53K OHMS, R163				-		-		-	
235	062-983	↑	10.0K OHMS, R27,28,31,33		4	4	4	4	4	4	4	
236	066-158	↑	11.3K OHMS, R244				1		1		1	
237	066-061	↑	13.0K OHMS, R105				1		1		1	
238	062-994	↑	16.2K OHMS, R101				1		1		1	
239	066-012	↓	40.2K OHMS, R34,35		2	2	2	2	2	2	2	
240	066-063		RESISTOR, M.F., 2.61K OHMS, 1/8W, 1% R201				1		1		1	
241	051-870		INDUCTOR, FIXED, 10uH L4								1	
242	076-931		RESISTOR, M.F., 536 OHMS, 1/8W, .25% R203				1		1		1	
243	076-933		RESISTOR, M.F., 806 OHMS, 1/8W, .25% R205				1		1		1	
244	068-025		INDUCTOR, FIXED, 100uH L7								1	
245	058-452		RESISTOR, VARIABLE, 200 OHMS R145,211		2	2	2	2	2	2	2	
246	058-564	↑	500 OHMS, R104,217		2	2	2	2	2	2	2	
247	058-601	↑	1K OHMS, R21				1		1		1	
248	058-565	↑	10K OHMS, R241				1		1		1	
249	058-893	↓	200K OHMS, R29				1		1		1	
250	058-462		RESISTOR, VARIABLE, 10K OHMS (PANEL MTG) R64		1		1		1		1	
251	068-025		INDUCTOR, FIXED, 100uH L4,7		2	2	2	2	2	2	-	
252	068-062		INDUCTOR, FIXED, 160uH L9		1		-		-		-	
253	590-500	↑	INTEGRATED CIRCUIT, MC10109, A1		1		1		1		1	
254	590-543	↑	MC10116, A2,3		2	2	2	2	2	2	2	
255	586-255	↑	CA3019, A5,7,10		3	3	3	3	3	3	3	
256	587-779	↑	MC7905.2, A6		1		1		1		1	
257												
258	586-124	↓	LM710, A11,13		2	2	2	2	2	2	2	
259	590-542	↓	LM311P, A9		1		1		1		1	
260	590-616	↓	INTEGRATED CIRCUIT, SN74221N, A12,16,18,20		4	4	4	4	4	4	4	
261	587-993		INTEGRATED CIRCUIT, MC17415C, A8		1		1		1		1	
262												

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1401050 SHEET 7	REV N					
ITEM NO.	PART NUMBER	DESCRIPTION			REF DESIG	QTY REQD PER DASH NUMBER						
						-01	-02	-03	-04	-05	-06	-07
263	589-813	INTEGRATED CIRCUIT, SN74LS00. 			A15		1	1	1	1	1	1
264	586-261	LM302 A19					1	1	1	1	1	1
265	590-534	LM747. 			A21		1	1	1	1	1	1
266	586-335	LM306 A22					1	1	1	1	1	1
267												
268	589-814	INTEGRATED CIRCUIT, SN74LS04. 			A14,17	2	2	2	3	3	3	3
269												
270	120-967	SWITCH, SPDT S1					1	1	1	1	1	1
271	139-037	CONNECTOR, COAX REF: J4					1	1	1	1	1	1
272	143-981	CONNECTOR, JACK, PC, TIP REF: J1-3,5-15			29	29	29	29	29	29	29	29
273												
274	570-435	TRANSFORMER, MCLT4-1T T1					1	1	1	1	1	1
275	187-259	TERMINAL LUG TL1-19			19	19	19	19	19	19	19	19
276												
277	602-044	PLUG, SHORTING REF: J1-3,5-15			14	14	14	14	14	14	14	14
278												
279	283-105	SPACER, PLAIN, .140 ID X .250 OD, .125 LG					1	1	1	1	1	1
280												
281	473-325	SCREW, MACH, PAN HD, XREC, 4-40 X .312 LG			5	-	-	-	-	-	-	-
282	471-063	SCREW, MACH, PAN HD, XREC, 4-40 X .430 LG			1	1	1	1	1	1	1	1
283	506-011	WASHER, BOWED			1	1	1	1	1	1	1	1
284	501-169	WASHER SMALL PATTERN, #4			5	-	-	-	-	-	-	-
285	502-002	WASHER, LOCK #4			1	1	1	1	1	1	1	1
286	474-500	SCREW, MACH, PAN HD, XREC, 4-40 X .312				5	5	5	5	5	5	5
287												
288	280-130	PAD, TRANSISTOR, MOUNTING REF: Q2,4-9,11-29,31-39,41-44			4	4	4	4	4	4	4	4
289	280-998	PAD, TRANSISTOR, MOUNTING REF: Q45,46			2	2	2	2	2	2	2	2
290												
291												
292	501-976	BUSHING, INSULATING, NYLON REF: A6			1	1	1	1	1	1	1	1
293	582-167	INSULATOR, MICA REF: A6			1	1	1	1	1	1	1	1
294	471-060	SCREW, 4-40 X .250 LG REF: A6			1	1	1	1	1	1	1	1
295	492-008	NUT, 4-40 REF: A6			1	1	1	1	1	1	1	1
296												
297												
298	1400262-01	BRACKET REF: B64			1	1	1	1	1	1	1	1
299	460-055	RIVET, .088 DIA X .156 LG REF: B64			2	2	2	2	2	2	2	2
300												
301	066-863	RESISTOR, C.F., 3.6K OHMS, 1/4W, 5% R30,62,252			3	3	3	3	3	3	3	3
302	611-208	WIRE, HOOK-UP, 24 GA			A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
303												
304												
305	066-812	RESISTOR, C.F., 100 OHMS, 1/4W, 5% R12,13,15,36,47,85,86,89,92,94,95,110,131,157,253			5	5	5	5	5	5	5	5
306												
307	066-663	RESISTOR, C.F., 220 OHMS, 1/4W, 5% R106			1	1	1	1	1	1	1	1






Assembly No. 1401050-07N. Demodulator PWA, No. 5, 525 Line

Schematic No. 1401052G.
Demodulator PWA, No. 5, 525-Line (Option)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																
				-01	-02	-03	-04	-05												
1																				
2																				
3																				
4	1401055	SCHEMATIC		(+)	A	B	E	F												
5																				
6																				
7	1400003-01	SHIELD				1	1	1												
8	1400004-01	HANDLE				1	1	1												
9	1400005 AE	LABEL				1	1	1												
10																				
11																				
12	230-144	KNOB, CONTROL	REF: R64			1	1	1												
13																				
14	051-770	INDUCTOR, FILTER	FL1-4			4	4	4												
15																				
16																				
17	1374388-AJ	INDUCTOR, VAR., 5.6uH	L5,6			2	2	2												
18	1374388-AK	INDUCTOR, VAR., 6.2uH	L8				1	1												
19	1374388-AM	INDUCTOR, VAR., 10uH	L2,3			2	2	2												
20	1374388-AN	INDUCTOR, VAR., 12.0uH	L1				1	1												
21																				
22																				
23	1379491-AF	TRANSFORMER, VARIABLE, 76.5uH	T2				1	1												
24	1379491-AE	TRANSFORMER, VARIABLE, 35.2uH	T3				1	1												
25	1379491-AH	TRANSFORMER, VARIABLE, 17.0uH	T4				1	1												
26																				
27	013-224	DIODE, ZENER, 6.8V, 1W 75mA	VR1				1	1												
28	013-358	DIODE, ZENER, 5.1V, 1W 75mA	VR2				1	1												
29	013-723	DIODE, SWITCHING FD777	CR4																	
30																				
31	013-689	DIODE, CD6016, 1N3600 SELECT	CR1,2,3,5,6			5	5	5												
32																				
33																				
34																				
35	014-247	TRANSISTOR, 2N2219	Q45			1	1	1												
36	014-364	TRANSISTOR, CD438, 2N 2905A	Q46			1	1	1												
37																				

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1401053	SHEET 2		REV M						
ITEM NO.	PART NUMBER	DESCRIPTION			REF DESIG	QTY REQD PER DASH NUMBER									
						-01	-02	-03	-04	-05					
38															
39															
40	014-581	TRANSISTOR, 2N2369	Q6,14,15			3	3	3	3	3					
41	014-597	TRANSISTOR, 2N3905	Q10				1	1	1	1					
42	014-600	TRANSISTOR, 2N2946	Q33				1	1	1	1					
43	014-738	TRANSISTOR, CD558	Q4,5			2	2	2	2	2					
44	014-852	TRANSISTOR, DUAL, MD2369	Q1,3,30,40				4	4	4	4					
45	014-576	TRANSISTOR, 2N2784	Q2				1	1	1	1					
46	580-453	TRANSISTOR, F.E.T. 2N5639	Q8,9,26,42			4	4	4	4	4					
47	014-859	TRANSISTOR, 2N4208	Q38				1	1	1	1					
48	014-505	TRANSISTOR, CD445	Q7,16,20,28,31,35,41,43,47			9	9	9	9	9					
49	014-506	TRANSISTOR, CD446	Q11,12,13,17,18,19,21-25,27,29,32,34,36,37,39,44,48			20	20	20	20	20					
50															
51	580-804	DUAL HEATSINK	REF: Q4,5,37,38			4	4	4	4	4					
52	014-613	HEATSINK	REF: Q45,46			2	2	2	2	2					
53	087-388	COMPOUND, HEATSINK	REF: Q4,5,37,38,45,46,46		A/R	A/R	A/R	A/R	A/R	A/R					
54															
55	037-954	CAPACITOR, TANT, DIPPED, 22uF, 15V	C61					1	1	1					
56	037-591	CAPACITOR, TANT, DIPPED, 1.0uF, 35V	C31,33			2	2	-	-	-					
57	037-908	CAPACITOR, TANT, DIPPED, 4.7uF, 35V	C23,24,124,125			4	4	4	4	4					
58	037-812	CAPACITOR, TANT, DIPPED, 10uF, 25V	C26,95			2	2	2	2	2					
59	037-893	CAPACITOR, TANT, DIPPED, 15uF, 20V	C38,105,108,121,123			5	5	5	5	5					
60	037-892	CAPACITOR, TANT, DIPPED, 47uF, 20V	C22,53,56,82,116,126			6	6	6	6	6					
61	037-901	CAPACITOR, TANT, DIPPED, 100uF, 20V	C16			1	1	1	1	1					
62	030-963	CAPACITOR, MONO., 1uF, 100V, $\pm 10\%$	C1,6,8-14,21,25,28-30,32,34,37,39,41,43			45	45	49	49	49					
63			48-52,62,64,66,71,73,74,87-94,96,104,109,110,113,115,117,120,122,130												
64															
65															
66	064-314	CAPACITOR, MONO 1.0uF 50V, C15,31,33,42,44-47,63,						9	9	9					
67	064-314	CAPACITOR, MONO., 1.0uF 50V	C15,42,44-47,63			-	-	-	-	-					
68	064-314	CAPACITOR, MONO., 1.0uF, 50V	C15,42,44-47,61,63			8	-	-	-	-					
69															
70															
71	035-814	CAPACITOR, MYLAR, .033uF, 50V, $\pm 5\%$	C65			1	1	-	1	1					
72	035-598	CAPACITOR, MYLAR, .047uF, 50V, $\pm 5\%$	C72			1	1	-	1	1					
73															
74															
75															
76	038-248	CAPACITOR, VAR., 15-60pF, 500V	C83,131			2	2	2	2	2					
77															
78															
79	034-532	CAPACITOR, MICA, 1.0pF, 500V, $\pm 5pF$	C5			1	1	-	1	1					
80															
81	034-345	CAPACITOR, MICA, 3.0pF, 500V, $\pm .5pF$	C57			1	1	-	1	1					
82															

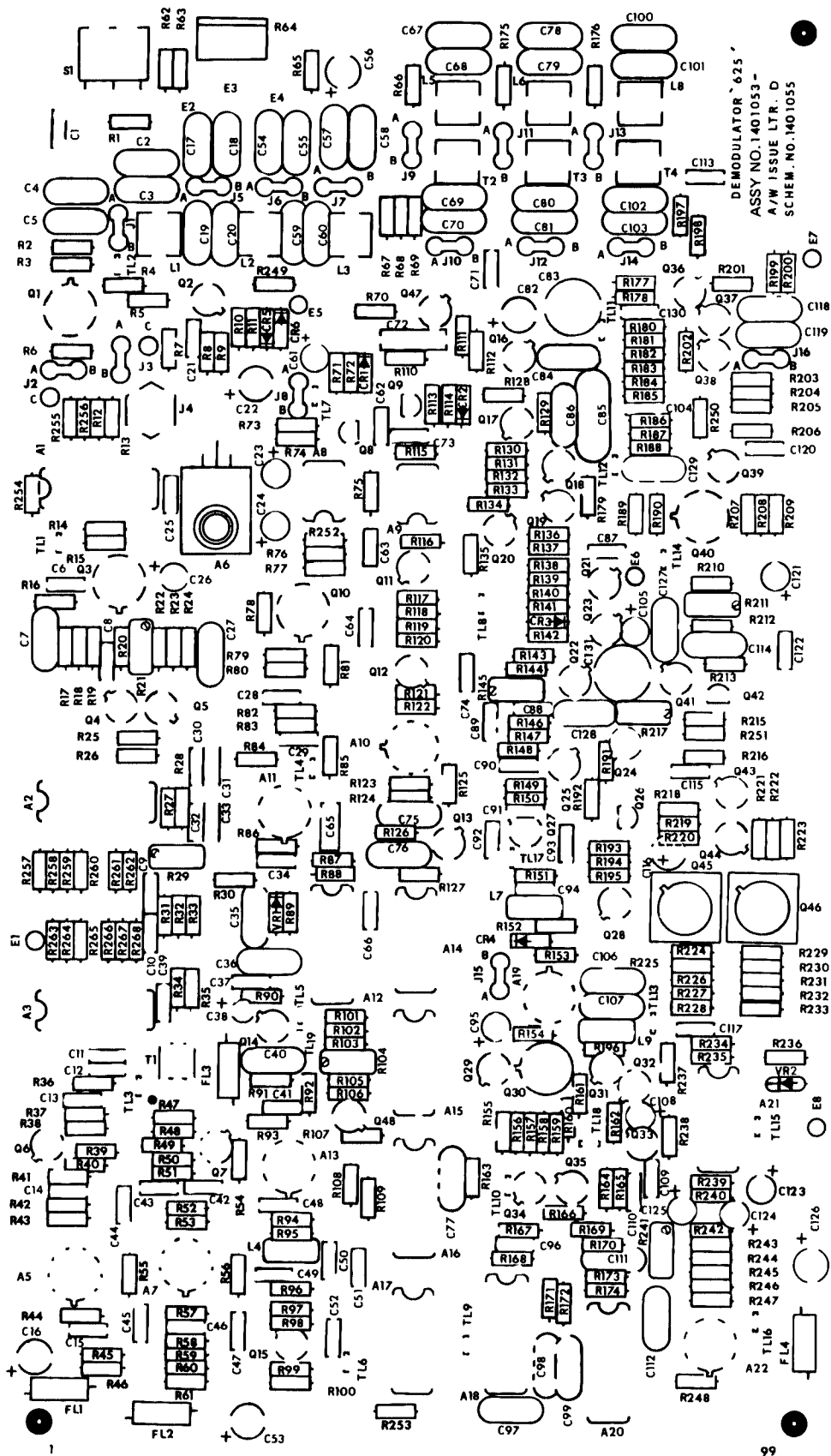
AMPEX Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS		LM-1401053		SHEET 3		RFV M					
ITEM NO.	PART NUMBER	DESCRIPTION	REF. DESIGN	QTY REQD PER DASH NUMBER										
				-0	-01	-02	-03	-04	-05					
83														
84	034-156	CAPACITOR, MICA, 5.0pF, $\pm .5pF$	C3,20,79			3	3	3	3	3				
85														
86	034-215	10pF, 500V, 1%	C97,98			2	2	2	2	2				
87														
88	034-759	15pF, $\pm .5pF$	C101					1	1	1				
89	056-105	18pF	C59					1	1	1				
90	056-140	20pF 500V	C19					1	1	1				
91	056-164	22pF	C114					1	1	1				
92	034-360	24pF	C84					1	1	1				
93	056-412	36pF	C107					1	1	1				
94	056-603	47pF 500V	C70,127			2	2	2	2	2				
95														
96	056-680	43pF, $\pm .5pF$	C68					1	1	1				
97														
98	034-248	50pF, $\pm 1\%$	C7,27,80			3	3	3	3	3				
99	034-918	68pF	C58					1	1	1				
100														
101	034-252	82pF	C4,128			2	2	2	2	2				
102	034-541	62pF	C102					1	1	1				
103	034-220	150pF	C55					1	1	1				
104	034-367	91pF 500V	C40					1	1	1				
105	034-219	120pF	C36,76,106			3	3	3	3	3				
106	034-224	160pF	C18,100			2	3	3	2	2				
107														
108	034-225	220pF	C99					1	1	1				
109														
110														
111														
112	034-919	270pF	C111						1	1				
113	034-287	300pF	C112					1	1	1				
114	034-253	330pF	C35						1	1				
115	034-241	360pF	C86						1	1				
116	034-298	390pF	C78						1	1				
117	034-330	750pF	C67						1	1				
118														
119	056-291	470pF	C75					1	1	1				
120	056-216	500pF, $\pm 1\%$	C77						1	1				
121	056-768	CAPACITOR, MICA, 642pF, $\pm .25\%$, 500V	C119						1	1				
122		 C2,54,60,118,17,69,81,103,129, R250												
123	034-329	CAPACITOR, MICA, 1000pF, $\pm 1\%$	C85						1	1				
124		 FUTURE DESIGN: DO NOT INSTALL												
125		C2,17,54,60,69,81,103,118,129,AND R250												
126														
127	066-820	RESISTOR, C.F., 750 OHMS, 1/4W, 5%	R246,247			2	2	2	2	2				

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1401053		SHEET 4		REV M				
ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
					-01	-02	-03	-04	-05					
128	066-810		RESISTOR, C.F., 10 OHM, 1/4W, 5% R71,182,207		3	3	3	3	3					
129	076-038		16 OHM, R17,24		2	2	2	2	2					
130	066-834		33 OHM R3,38,50,98		4	4	4	3	3					
131	066-938		47 OHM R8,19,22,25,26,37,39,49,51,79-81,84,93,99,117,188,192,199,200,202,204,206,220,223		25	25	25	25	25					
132														
133	066-720		3.3K OHM R88,109,132,155,168,173		6	6	6	6	6					
134	076-045		75 OHM R100,190		2	2	2	2	2					
135	066-815		300 OHM R177		1	1	1	1	1					
136	066-813		150 OHM R218,221,249		3	3	3	3	3					
137														
138														
139														
140	066-814		270 OHM R187		1	1	1	1	1					
141	066-872		360 OHM R6		1	1	1	1	1					
142	066-819		620 OHM R20,254-268		6	6	6	15	16					
143	066-821		820 OHM R152		1	1	1	1	1					
144														
145	066-665		1K OHM R40,42,48,52,75,76,78,91,96,116,118,129,140,169,180,181,237,239,240,196		20	20	20	20	20					
146														
147	066-715		1.2K OHM R73,77,186,219,222		5	5	5	5	5					
148	066-824		1.5K OHM R120,128,213		3	3	3	3	3					
149	066-675		1.8K OHM R179,238		2	2	2	2	2					
150														
151														
152														
153	066-689		2.2K OHM R107,108,137,193		4	4	4	4	4					
154														
155														
156	066-863		3.6K OHM R30,62		2	2	2	2	2					
157	066-666		2.7K OHM, R65,102		2	2	2	2	2					
158	066-663		220 OHM R106		1	1	1	1	1					
159	066-827		3.9K OHM R135,141,153		3	3	3	3	3					
160	066-828		4.3K OHM R54		1	1	1	1	1					
161														
162														
163														
164	066-718		5.6K OHM R133		1	1	1	1	1					
165	066-829		6.8K OHM R103,172		2	2	2	2	2					
166	066-711		7.5K OHM R83		1	1	1	1	1					
167	066-669		8.2K OHM R119,63		2	2	2	2	2					
168	066-670		9.1K OHM R248		1	1	1	1	1					
169														
170	066-831		11K OHM R234,236		2	2	2	2	2					
171	066-830		10K OHM R70,136,150,156,167,171,174,191,194		9	9	9	9	9					
172	066-712		RESISTOR, C.F., 22K OHM, 1/4W, 5% R1,235		2	2	2	2	2					

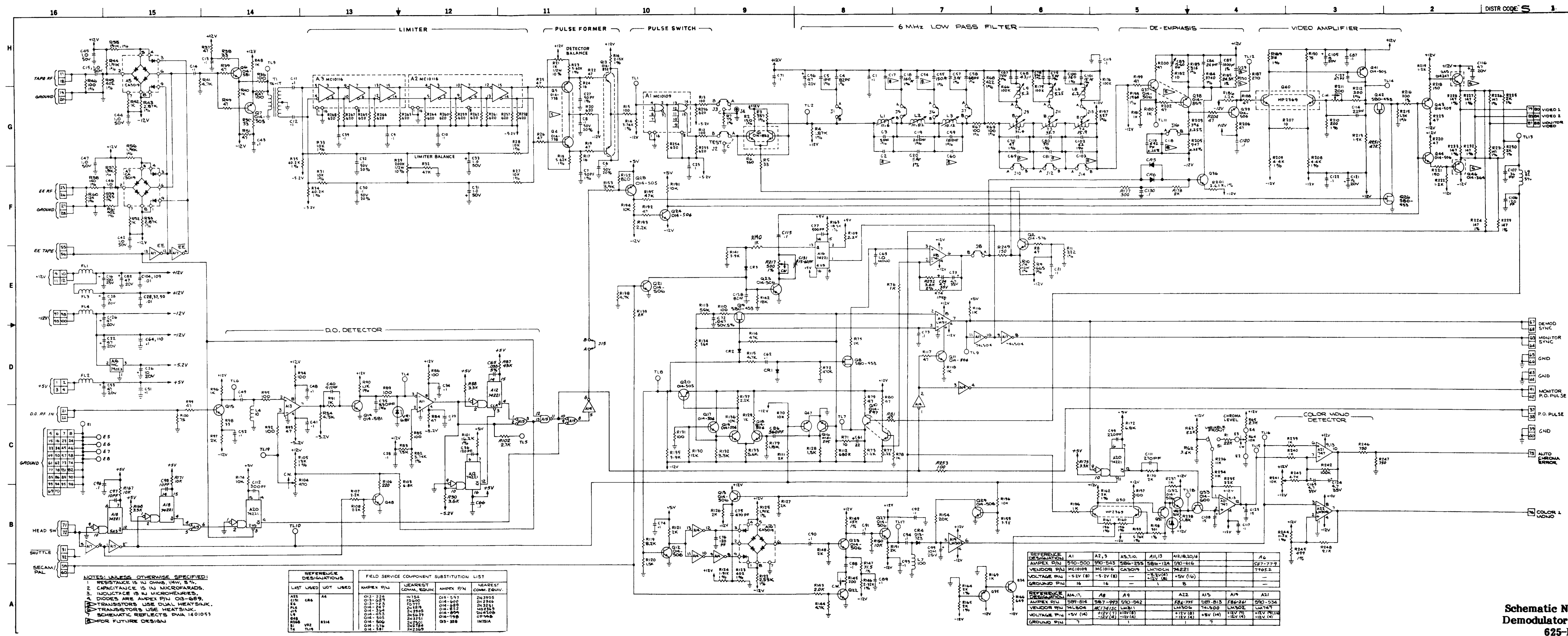
AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1401053	SHEET 5					REV LM		
ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
					-01	-02	+03	-04	-05					
173	066-865		RESISTOR, C.F., 12K OHM, 1/4W, 5% R130					1	1	1				
174														
175														
176	066-832		18K OHM R142					1	1	1				
177	066-848		43K OHM R87					1	1	1				
178	066-873		20K OHM R154					1	1	1				
179														
180														
181	066-833		56K OHM R113,134			2	2	2	2	2				
182	066-849		100K OHM R66,175,176,242			4	4	4	4	4				
183	066-652		470K OHM R72					1	1	1				
184	076-013		680K OHM R112					1	1	1				
185	066-673		RESISTOR, C.F., 1 MEG, 1/4W, 5% R74					1	1	1				
186														
187	062-836		RESISTOR, M.F., 75 OHM 1/8W, 1% R7					1	1	1				
188	062-847		100 OHM R46,67,69					3	3	3				
189	062-856		124 OHM R60					1	1	1				
190	062-861		140 OHM R58					1	1	1				
191	062-863		147 OHM R224,226-229,231-233					8	8	8				
192														
193	062-833		71.5 OHM R147					1	1	1				
194	062-864		150 OHM R2					1	1	1				
195	066-654		174 OHM R10					1	1	1				
196	062-873		196 OHM R160,161					2	2	2				
197	062-874		200 OHM R210,212,216					3	3	3				
198														
199														
200														
201	066-511		255 OHM R59					1	1	1				
202	062-884		301 OHM R158					1	1	1				
203	062-886		316 OHM R183,189					2	2	2				
204	062-887		332 OHM R11					1	1	1				
205														
206														
207														
208	062-889		357 OHM R3,197					2	2	2				
209														
210	062-902		499 OHM R245					1	1	1				
211	062-894		402 OHM R45,61,123					3	3	3				
212	062-897		422 OHM R68					1	1	1				
213														
214	062-912		649 OHM R166					1	1	1				
215	066-180		665 OHM R9					1	1	1				
216	062-928		RESISTOR, M.F., 1.1K OHM 1/8W, 1% R90					1	1	1				
217														

AMPEX		CODE IDENT NO. 92739		LIST OF MATERIALS		LM-1401053		SHEET 6		REV M				
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER										
				-01	-02	-03	-04	-05						
218	062-599	RESISTOR, M.F., 1.3K OHM 1/8W, 1%	R215	1			1	1	1					
219	062-932	1.5K OHM	R149	1			1	1	1					
220	066-161	1.87K OHM	R4	1			1	1	1					
221	066-454	1.91K OHM	R44,55,56,57,124,125	6	6		5	6	6					
222	062-643	2.0K OHM	R162,164,165,225,230	5	5		5	5	5					
223	066-193	2.15K OHM	R16	1			1	1	1					
224	062-943	2.32K OHM	R146	1			1	1	1					
225	076-157	1.96K OHM	R198	1			1	1	1					
226	062-948	2.55K OHM	R122	1			1	1	1					
227	062-952	2.87K OHM	R43,53	2	2		2	2	2					
228	062-958	3.74K OHM	R14,82,184	3	3		3	3	3					
229	066-435	4.42K OHM	R208,209	2	2		2	2	2					
230	062-972	5.62K OHM	R18,23	2	2		2	2	2					
231	062-973	5.76K OHM	R159	1			1	1	1					
232	066-442	10.5K OHM	R163	1			1	1	1					
233														
234	066-004	24.3K OHM	R185	1			1	1	1					
235	062-983	10.0K OHM	R27,28,31,33	4	4		4	4	4					
236	066-158	11.3K OHM	R244	1			1	1	1					
237	066-061	13.0K OHM	R105	1			1	1	1					
238	062-994	16.2K OHM	R101	1			1	1	1					
239	066-012	40.2K OHM	R34,35	2	2		2	2	2					
240	066-063	2.61K OHM 1/8W, 1%	R201	1			1	1	1					
241														
242	076-946	396 OHM, 1/8W, $\pm .25\%$	R203	1			1	1	1					
243	076-945	RESISTOR, M.F., 947 OHM, 1/8W, $\pm .25\%$	R205	1			1	1	1					
244	051-870	INDUCTOR, FIXED, 10uH	L4											
245	058-452	RESISTOR, VARIABLE, 200 OHM	R145,211	2	2		2	2	2					
246	058-564	500 OHM	R104,217	2	2		2	2	2					
247	058-601	1K OHM	R21	1			1	1	1					
248	058-565	10K OHM	R241	1			1	1	1					
249	058-893	200K OHM	R29	1			1	1	1					
250	058-462	RESISTOR, VARIABLE, 10K OHM (PANEL MTG)	R64	1			1	1	1					
251	068-025	INDUCTOR, FIXED, 100uH	L4,7	2	2		2	2	2					
252	068-079	INDUCTOR, FIXED, 82uH	L9	1			1	1	1					
253	590-500	INTEGRATED CIRCUIT, MC10109	A1	1			1	1	1					
254	590-543	MC10116	A2,3	2	2		2	2	2					
255	586-255	CA3019	A5,7,10	3	3		3	3	3					
256	587-779	MC7905.2	A6	1			1	1	1					
257														
258	586-124	LM710	A11,13	2	2		2	2	2					
259	590-542	LM311P	A9	1			1	1	1					
260	590-616	SN74221N	A12,16,18,20	4	4		4	4	4					
261	587-993	INTEGRATED CIRCUIT, MC1741SC	A8	1			1	1	1					
262	068-025	INDUCTOR, FIXED, 100uH	L7											

AMPEX Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1401053 SHEET 7	REV M									
ITEM NO.	PART NUMBER	DESCRIPTION		REF. DESIGN	QTY REQD PER DASH NUMBER									
					-01	-02	-03	-04	-05					
263														
264	586-261	INTEGRATED CIRCUIT, LM302	A19		1			1	1					
265	590-534	LM747	A21		1			1	1					
266	586-335	LM306	A22		1			1	1					
267														
268	589-814	SN74LS04	A14,17		2	2	2	2	2					
269	589-813	INTEGRATED CIRCUIT, SN74LS00	A15		1			1	1					
270	120-967	SWITCH, SPDT	S1		1			1	1					
271	139-037	CONNECTOR, COAX	REF: J4		1			1	1					
272	143-981	CONNECTOR, JACK, P.C., TIP	REF: J1-3,5-16		29	29	29	32	32					
273														
274	570-435	TRANSFORMER, MCLT4-1T	T1		1	1	1	1	1					
275	187-259	TERMINAL LUG	TL1-19		19	19	19	19	19					
276														
277														
278	602-044	PLUG, SHORTING	REF: J1-3,5-9,11,13,15,16		14	14	14	12	12					
279	283-105	SPACER, PLAIN, .140 X .250 O.D., .125 LG			1	1	1	1	1					
280														
281	473-325	SCREW, MACH, PAN HD, XREC, 4-40 X .312 LG			5	-	-	-	-					
282	471-063	SCREW, MACH, PAN HD, XREC, 4-40 X .430 LG			1	1	1	1	1					
283	474-500	SCREW, MACH, PAN HEAD, X REC, 4-40 X .312			5	5	5	5	5					
284	501-169	WASHER, SMALL PATTERN, #4			5	-	-	-	-					
285	502-002	WASHER, LOCK #4			1	1	1	1	1					
286														
287														
288														
289	280-130	PAD, TRANSISTOR MOUNTING	REF: Q2,4-9,11-29,31-39,41-44		41	41	41	41	41					
290	280-998	PAD, TRANSISTOR MOUNTING	REF: Q45,46		2	2	2	2	2					
291														
292	501-976	BUSHING, INSULATING, NYLON	REF: A6		1	1	1	1	1					
293	582-167	INSULATOR, MICA	REF: A6		1	1	1	1	1					
294	471-060	SCREW, 4-40 X .250 LG	REF: A6		1	1	1	1	1					
295	492-008	NUT, 4-40	REF: A6		1	1	1	1	1					
296														
297	506-011	WASHER, BOWED			1	1	1	1	1					
298														
299	1400262-01	BRACKET	REF: R64		1	1	1	1	1					
300	460-055	RIVET, .088 DIA X .156 LG			2	2	2	2	2					
301														
302	611-208	WIRE, HOOK-UP, 24 AWG, BLACK			A/R	A/R	A/R	A/R	A/R					
303														
304	066-812	RESISTOR, C.F., 100 OHM, 1/4W, 5% R12,13,15,36,85,86,89, 92,94,95,110,131,157, 47,253			15	15	15	15	15					
305	066-668	RESISTOR, C.F., 4.7K OHM, 1/4W, 5% R41,115,138,144,243			5	5	5	5	5					



Assembly No. 1401053-05M. Demodulator PWA, No. 5, 625 Line



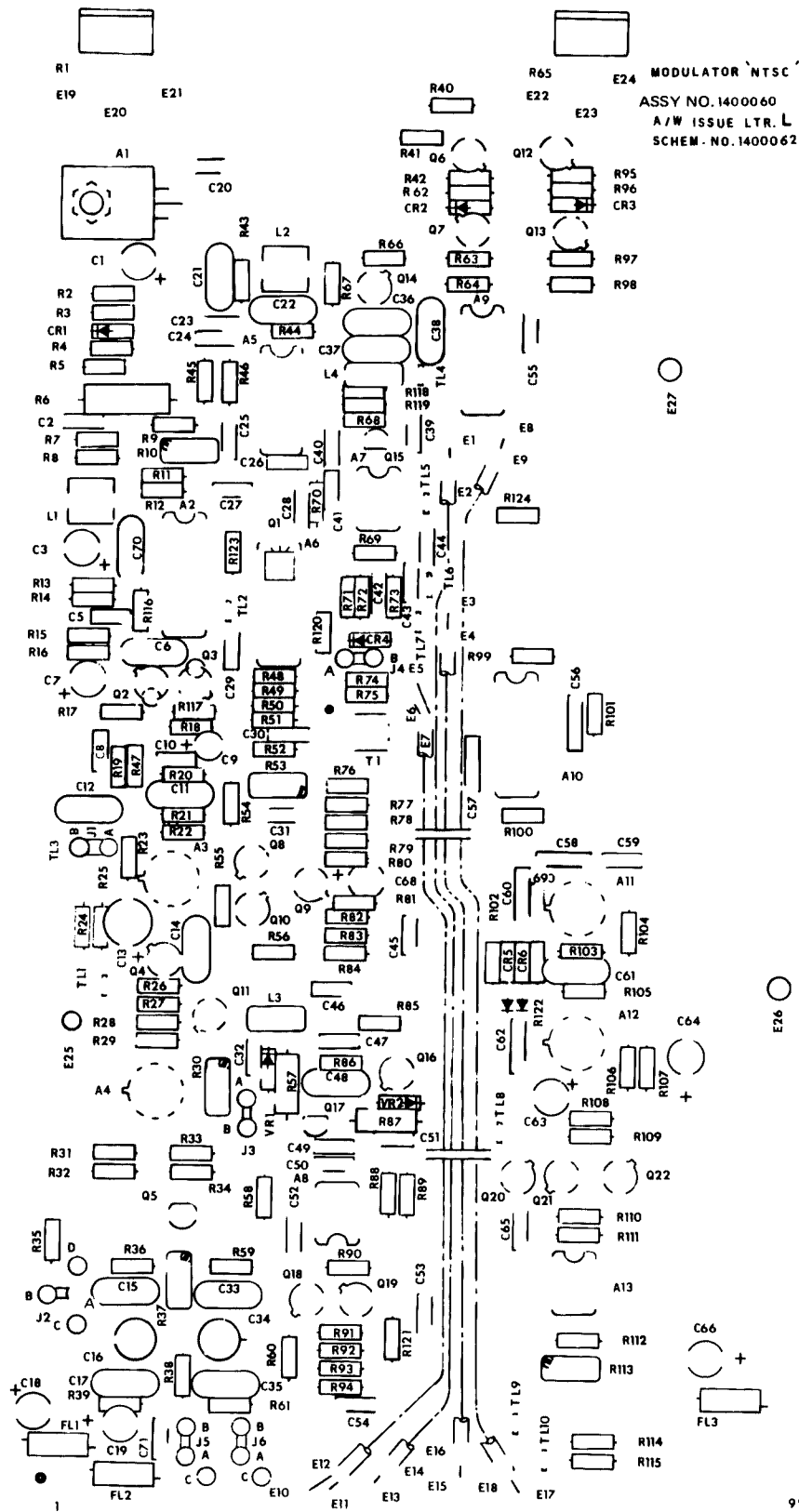
Schematic No. 1401055E.
Demodulator PWA, No. 5,
625-Line (Option)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER CASH NUMBER											
				-05	-06	-07	-08	-09	-10	-11	-12				
1				06	06	-06	-07	-08	-09	-10	-11				
2															
3	1400062	SCHEMATIC		G	H	J	K	L	M	P	R				
4	1400262-01	BRACKET	REF: R1,65	2	2	2	2	2	2	2	2				
5	1400003-01	SHIELD		1	1	1	1	1	1	1	1				
6	1400004-01	HANDLE		1	1	1	1	1	1	1	1				
7	1400005-AF	LABEL		1	1	1	1	1	1	1	1				
8	1374188-01	INDUCTOR, FILTER	FL1-3	3	3	3	3	3	3	3	3				
9	1374388-AC	INDUCTOR, VAR., 1.8uH	L1	1	1	1	1	1	1	1	1				
10	1374388-AB	INDUCTOR, VAR., 1.5uH	L2	1	1	1	1	1	1	1	1				
11															
12	013-650	DIODE, CD498, 1N270	CR1	1	1	1	1	1	1	1	1				
13	013-689	DIODE, CD6016	CR2-6	5	5	5	5	5	5	5	5				
14	013-167	DIODE, ZENER, 8.2V, 1N756A	VR1,2	2	2	2	2	2	2	2	2				
15	230-144	KNOB CONTROL	REF: R1,65	2	2	2	2	2	2	2	2				
16	014-505	TRANSISTOR, PNP, 2N3251	Q2,4,7,13,14,19,20,22	8	8	8	8	8	8	8	8				
17	014-506	TRANSISTOR, NPN, 2N2501	Q3,6,8-12,16,18,21	10	10	10	10	10	10	10	10				
18	014-781	TRANSISTOR, MPS6518	Q1	1	1	1	1	1	1	1	1				
19	580-971	TRANSISTOR, FET, DUAL, U440	Q5	1	1	1	1	1	1	1	1				
20	580-685	TRANSISTOR, FET, J2080	Q15,17	2	2	2	2	2	2	2	2				
21	579-069	TRANSISTOR, FET, J113-18	Q15,17											2	
22	064-314	CAPACITOR, CER., MONO., DIPPED, 1.0uF, 50V, 20%	C71											1	
23	037-967	CAPACITOR, TANT, DIPPED, 220uF, 10V	C13						1	1	1			1	
24	037-892	CAPACITOR, TANT., DIPPED, 47uF, 20V	C18,19,66	3	3	3	3	3	3	3	3			3	
25	037-957	68uF, 15V	C3,7	2	2	2	2	2	2	2	2			2	
26	037-931	6.8uF, 35V	C9,63,64	3	3	3	3	3	3	3	3			3	
27	037-812	10uF, 25V	C1	1	1	1	1	1	1	1	1			1	
28	037-960	TANT., DIPPED, 150uF, 15V	C68	1	1	1	1	1	1	1	1			1	
29	037-908	TANT., DIPPED, 4.7uF, 35V	C13						-	-	-			-	
30	064-316	MONO., 2.2uF, 50V	C8,41,42,49,65	5	5	5	5	5	5	5	5			5	
31	030-963	MONO., .1uF, 100V	C2,5,10,13,20,23-32,39,40,43-47,50-55,59,69	30	30	30			-	-	-			-	
32	030-963	MONO., .1uF 100V	C2,5,10,20,23-32,39,40,43-47,50-55,59,69				29	29	29	29	29			29	
33	035-729	MYLAR, .0015uF, 50V, 5%	C56,57	2	2	2	2	2	2	2	2			2	
34	055-214	MYLAR, .0012uF, 50V, 5%	C58	1	1	1	1	1	1	1	1			1	
35	035-828	CAPACITOR, MYLAR, .022uF, 50V, 5%	C60,62	2	2	2	2	2	2	2	2			2	
36	087-388	HEATSINK COMPOUND	REF: A1	AR	AR	AR	A/R	A/R	A/R	A/R	A/R			A/R	
37	460-055	RIVET, .088 DIA X .156 LG	REF: R1,65	4	4	4	4	4	4	4	4			4	

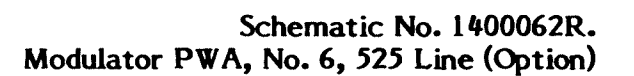
AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1400060	REV						
						SHEET 2							
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-05	-06	-07	-08	-09	-10	-11	-12		
38	034-215	CAPACITOR, MICA, 10pF, 500V, $\pm .5pF$	C17,35	2	2	2	2	2	2	2	2		
39	056-105	18pF, $\pm .5pF$	C22		1	1	1	1	1	1	1		
40	056-140	20pF, $\pm .5pF$	C61		1	1	1	1	1	1	1		
41	056-412	36pF, $\pm .5pF$	C14,36	2	2	2	2	2	2	2	2		
42	056-603	47pF, $\pm .5pF$	C37	1	1	1	1	1	1	1	1		
43	034-540	51pF, 1%	C6		1	1	1	1	1	1	1		
44	034-285	75pF, 1%	C48		1	1	1	1	1	1	1		
45	034-222	100pF, 1%	C21		1	1	1	1	1	1	1		
46	034-287	300pF, 1%	C15,33	2	2	2	2	2	2	2	2		
47	056-216	500pF, 1%	C11	1	1	1	1	1	1	1	1		
48	034-219	120pF, 500V, 1%	C38	1	1	1	1	1	1	1	1		
49	056-763	CAPACITOR, MICA, 500pF, $\pm .25\%$	C12	1	1	1	1	1	1	1	1		
50	038-292	CAPACITOR, VAR., 1-10pF, 500V	C16,34	2	2	2	2	2	2	2	2		
51	034-240	CAPACITOR, MICA, 220pF, 500V 5%	C48										
52	034-360	CAPACITOR, MICA, 24pF, 500V, 1%	C70	1	1	1	1	1	1	1	1		
53	034-219	CAPACITOR, MICA, 120pF, 500V, 1%	C38,48										
54	066-938	RESISTOR, C.F., 47 OHMS, 1/4W, 5% R17,27,86,117,121		5	5	5	5	5	5	5	5		
55	076-003	56 OHMS, 1%	R11,43	2	2	2	2	2	2	2	2		
56	066-677	68 OHMS, 1%	R9,69	2	2	2	2	2	2	2	2		
57	076-045	75 OHMS, 1%	R35	1	1	1	1	1	1	1	1		
58	066-668	4.7 K OHMS, 1%	R28,67										
59	066-859	240 OHMS, 1%	R70	1	1	1	1	1	1	1	1		
60	066-814	270 OHMS, 1%	R47-50,71,116	5	5	5	5	5	5	5	5		
61	066-665	1K OHMS, 1%	R45,63,64,73,89,97,98,114,115	9	9	9	9	9	9	9	9		
62	066-826	2K OHMS, 1%	R26,44,46,110	4	4	4	4	4	4	4	4		
63	066-841	1.3K OHMS, 1%	R12	1	1	1	1	1	1	1	1		
64	066-667	3K OHMS, 1%	R40,41,90	3	3	3	3	3	3	3	3		
65	066-720	3.3K OHMS, 1%	R42,62,66,95,96,99	6	6	6	6	6	6	6	6		
66	066-828	4.3K OHMS, 1%	R77,82	2	2	2	2	2	2	2	2		
67	066-668	4.7K OHMS, 1%	R67	1	1	1	1	1	1	1	1		
68	066-842	5.1K OHMS, 1%	R78,83	2	2	2	2	2	2	2	2		
69	066-718	5.6K OHMS, 1%	R108	1	1	1	1	1	1	1	1		
70	066-827	3.9K OHMS, 1%	R28	1	1	1	1	1	1	1	1		
71	066-711	7.5K OHMS, 1%	R103	1	1	1	1	1	1	1	1		
72	066-830	10K OHMS, 1%	R72,76,84	3	3	3	3	3	3	3	3		
73	066-847	33K OHMS, 1%	R88,102	2	2	2	2	2	2	2	2		
74	066-717	47K OHMS, 1%	R109	1	1	1	1	1	1	1	1		
75	066-673	1 MEG OHMS, 1%	R39,61,105	3	3	3	3	3	3	3	3		
76	066-666	2.7K OHMS, 1%	R51,112	2	2	2	2	2	2	2	2		
77	066-812	100 OHMS, 1%	R122	1	1	1	1	1	1	1	1		
78	066-984	RESISTOR, C.F., 160 OHMS, 1/4W, 5%	R104	1	1	1	1	1	1	1	1		
79	501-976	BUSHING, INSULATING, NYLON	REF: A1	1	1	1	1	1	1	1	1		
80	582-167	INSULATOR, MICA	REF: A1	1	1	1	1	1	1	1	1		
81	471-060	SCREW, 4-40 X .250 LG.	REF: A1	1	1	1	1	1	1	1	1		
82	492-008	NUT, 4-40	REF: A1	1	1	1	1	1	1	1	1		

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1400060 SHEET 3	REV A0						
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER									
				-06	-07	-08	-09	-10	-11	-12			
83	066-665	RESISTOR, C.F., 1K OHMS, 1/4W, 5% R45,63,64,73,89 97,98,114,115,124										10	
84	041-793	RESISTOR, COMP., 10 MEG OHMS, 1/4W, 5%	R111		1	1	1	1	1	1	1	1	
85	041-801	22 MEG OHMS, 1/4W, 5%	R68,85	2	2	2	2	2	2	2	2	2	
86													
87	041-010	2K OHMS, 1/2W, 5%	R57,87	2	2	2	2	2	2	2	2	2	
88	041-885	COMP., 200 OHMS, 1W, 5%	R6	1	1	1	1	1	1	1	1	1	
89													
90	062-643	RESISTOR, M.F., 2K OHMS, 1/8W, 1%	R55,56	2	2	2	2	2	2	2	2	2	
91	058-452	RESISTOR, VAR., 200 OHMS,	R10	1	1	1	1	1	1	1	1	1	
92	058-564	RESISTOR, VAR., 500 OHMS,	R30,53	2	2	2	2	2	2	2	2	2	
93													
94	058-540	RESISTOR, VAR., 5K OHMS,	R37,113	2	2	2	2	2	2	2	2	2	
95	058-459	RESISTOR, VAR., 5K OHMS, (PANEL MOUNTING)	R1,65	2	2	2	2	2	2	2	2	2	
96	062-950	RESISTOR, M.F., 2.74K OHMS, 1/8W, 1%	R93,119	2	2	2	2	2	2	2	2	2	
97	062-955	RESISTOR, M.F., 3.32K OHMS,	R118	1	1	1	1	1	1	1	1	1	
98	062-821	49.9 OHMS,	R29	1	1	1	1	1	1	1	1	1	
99	062-822	51.1 OHMS,	R74,75	2	2	2	2	2	2	2	2	2	
100	062-833	71.5 OHMS,	R58	1	1	1	1	1	1	1	1	1	
101	062-836	75 OHMS,	R38	1	1	1	1	1	1	1	1	1	
102	062-847	100 OHMS,	R3,5,8	3	3	3	3	3	3	3	3	3	
103	062-875	210 OHMS,	R120	1	1	1	1	1	1	1	1	1	
104	062-859	130 OHMS,	R106	1	1	1	1	1	1	1	1	1	
105	062-860	133 OHMS,	R14	1	1	1	1	1	1	1	1	1	
106	062-877	221 OHMS,	R19,24	2	2	2	2	2	2	2	2	2	
107	062-880	249 OHMS,	R4	1	1	1	1	1	1	1	1	1	
108	062-889	357 OHMS,	R52	1	1	1	1	1	1	1	1	1	
109	062-892	383 OHMS,	R13	1	1	1	1	1	1	1	1	1	
110	062-897	422 OHMS,	R7	1	1	1	1	1	1	1	1	1	
111	062-901	475 OHMS,	R15	1	1	1	1	1	1	1	1	1	
112													
113	062-905	536 OHMS,	R2	1	1	1	1	1	1	1	1	1	
114	062-908	604 OHMS,	R91	1	1	1	1	1	1	1	1	1	
115	066-174	806 OHMS,	R21	1	1	1	1	1	1	1	1	1	
116	062-918	825 OHMS,	R31,32	2	2	2	2	2	2	2	2	2	
117	062-624	1K OHMS,	R33,34	2	2	2	2	2	2	2	2	2	
118	062-599	1.3K OHMS,	R16	1	1	1	1	1	1	1	1	1	
119	062-932	1.5K OHMS,	R22	1	1	1	1	1	1	1	1	1	
120	062-988	13.7K OHMS,	R94	1	1	1	1	1	1	1	1	1	
121													
122	062-958	3.74K OHMS,	R79	1	1	1	1	1	1	1	1	1	
123													
124	062-978	7.68K OHMS,	R80	1	1	1	1	1	1	1	1	1	
125	062-982	9.09K OHMS,	R54	1	1	1	1	1	1	1	1	1	
126	066-752	11.8K OHMS,	R107	1	1	1	1	1	1	1	1	1	
127	062-694	RESISTOR, M.F., 15K OHMS, 1/8W, 1%	R92	1	1	1	1	1	1	1	1	1	

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400060		REV 4							
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER											
				-05	-06	-07	-08	-09	-10	-11	-12				
128	062-995	RESISTOR, M.F., 16.5K OHMS, 1/8W, 1%	R60	1	1	1	1	1	1	1	1	1			
129	066-014	47.5K OHMS, 1/8W, 1%	R36,59	2	2	2	2	2	2	2	2	2			
130	076-932	794 OHMS, 1/8W, .25%	R25	1	1	1	1	1	1	1	1	1			
131	076-934	1.2K OHMS, 1/8W, .25%	R23	1	1	1	1	1	1	1	1	1			
132	062-625	1.21K OHMS, 1/8W, 1%	R20	1	1	1	1	1	1	1	1	1			
133	062-880	RESISTOR, M.F., 249 OHMS, 1/8W, 1%	R4,81	2	-	-	-	-	-	-	-	-			
134	068-064	INDUCTOR, FIXED, 300uH	L3,4	2	2	2	2	2	2	2	2	2			
135	062-639	RESISTOR, M.F., 3.01K OHMS	R18,100,101	3	3	3	3	3	3	3	3	3			
136	062-985	RESISTOR, M.F. 10.7 K OHMS. 1/8W, 1%	R28	1	1	1	1	1	1	1	1	1			
137	587-779	INTEGRATED CIRCUIT, MC7905	A1	1	1	1	1	1	1	1	1	1			
138	590-330	MC10115, PRESTRESSED	A2	1	1	1	1	1	1	1	1	1			
139	586-255	CA3019	A3	1	1	1	1	1	1	1	1	1			
140	587-106	NE592	A4	1	1	1	1	1	1	1	1	1			
141	586-776	MC1357P	A5	1	-	-	-	-	-	-	-	-			
142	590-326	MC10131, PRESTRESSED	A6	1	1	1	1	1	1	1	1	1			
143	590-611	uA741, PRESTRESSED	A7,8	2	2	2	2	2	2	2	2	2			
144	586-109	SN7402N	A9	1	1	1	1	1	1	1	1	1			
145	590-616	SN74221N, PRESTRESSED	A10	1	1	1	1	1	1	1	1	1			
146	586-124	uA710	A11	1	1	1	1	1	1	1	1	1			
147	586-335	LM306	A12	1	1	1	1	1	1	1	1	1			
148	590-448	LM310, PRESTRESSED	A13	1	1	1	1	1	1	1	1	1			
149	589-799	INTEGRATED CIRCUIT, CA2111AE	A5	1	1	1	1	1	1	1	1	1			
150	018-019	ADHESIVE	REF: Q1,A6	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R			
151	143-981	CONNECTOR, JACK, PC TIP	REF: J1-A,B;J2-A,B,C,D;J3,4-A,B; J5,6-A,B,C	15	6	16	15	6	16	16	15	15			
152															
153	187-259	TERMINAL, LUG	TL1-10	10	0	10	10	10	10	10	10	10			
154	932-035	FERRITE, BEAD	REF: BASE OF Q2,3	2	2	2	2	2	2	2	2	2			
155															
156	280-130	PAD, TRANSISTOR, MOUNTING	REF: Q4,6-14,16,18-22	15	6	16	15	6	16	16	15	15			
157	302-395	CABLE, STRAP		2	2	2	2	2	2	2	2	2			
158		WIRE, 24 AWG, BLACK		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R			
159	560-471	TRANSFORMER, RF MCL T1-IT	T1	1	1	1	1	1	1	1	1	1			
160															
161	602-044	PLUG, SHORTING	J1-6	6	6	6	6	6	6	6	6	6			
162															
163	616-569	CABLE COAX, 75 OHMS		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R			
164	616-720	CABLE COAX, 124 OHMS		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R			
165															
166	283-105	SPACER, PLAIN, .140 I.D. X .250 O.D. X .125 LG		1	1	1	1	1	1	1	1	1			
167	474-500	SCREW, MACH., PAN HD., XREC, 4-40 X .312 LG									5	5			
168	473-325	SCREW, MACHINE, PAN HD., XREC, 4-40 X .312 LG		5	5	5	5	5	5	5	-	-			
169	471-063	SCREW, MACHINE, PAN HD., XREC, 4-40 X .438 LG		1	1	1	1	1	1	1	1	1			
170	501-169	WASHER, SMALL PATTERN #4		5	5	5	5	5	5	5	-	-			
171	502-002	WASHER, LOCK #4		1	1	1	1	1	1	1	1	1			
172	506-011	WASHER, BOWED		1	1	1	1	1	1	1	1	1			



Assembly No. 1400060-12AD. Modulator PWA, No. 6, 525 Line (Option)



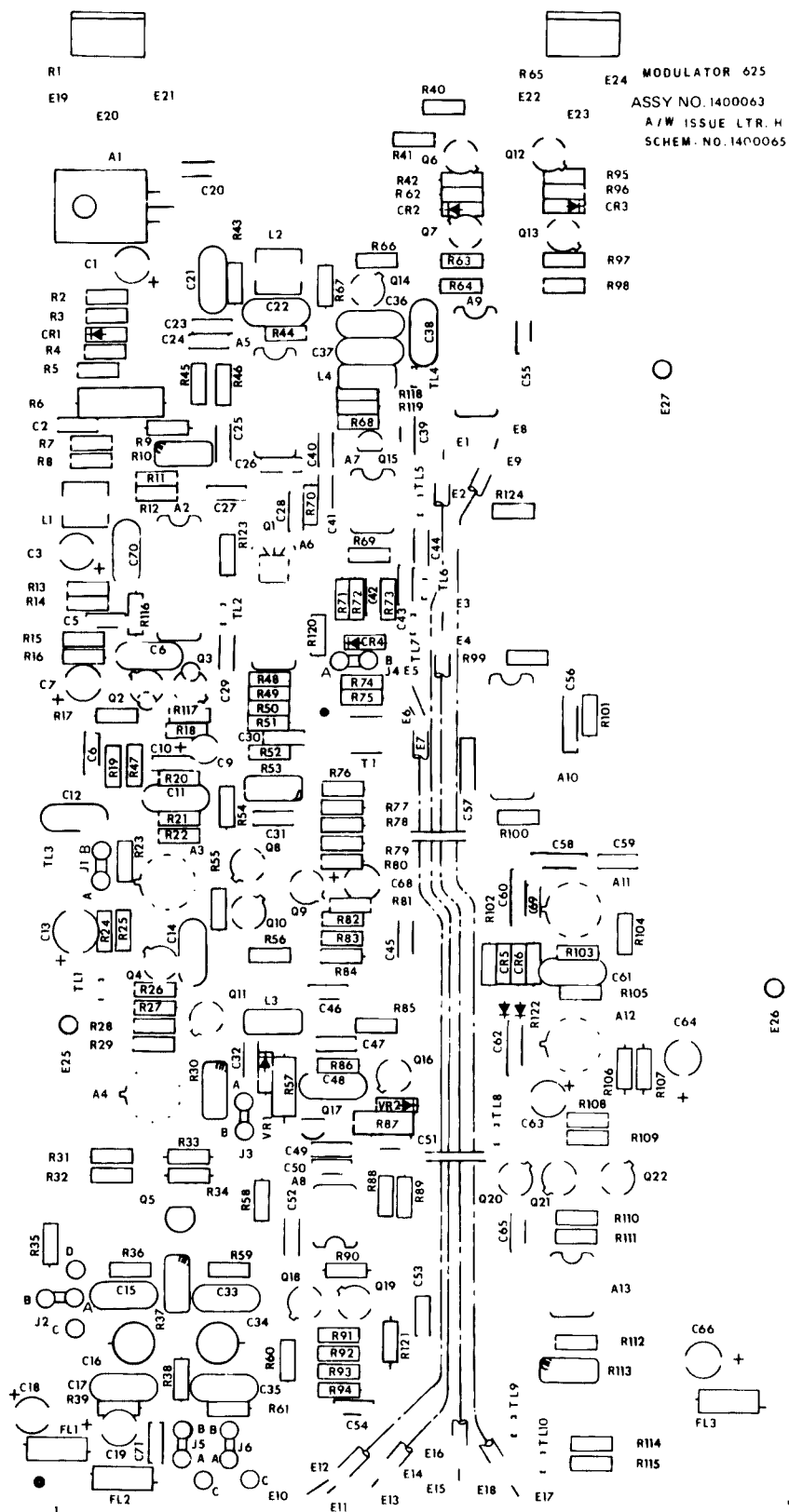
NEXT HIGHER ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-11	-02	-03	-04	-05	-06	-07	-08	-09	-10
1					-02	-03	-04	-05	-06	-07	-08	-09	-10
2													
3	1400065	SCHEMATIC	L		A	B	C	D	E	F	G	H	K
4													
5	1400003-01	SHIELD	1		1	1	1	1	1	1	1	1	1
6	1400004-01	HANDLE	1		1	1	1	1	1	1	1	1	1
7	1400005-AF	LABEL	1		1	1	1	1	1	1	1	1	1
8	1374188-01	INDUCTOR, FILTER	FL1-3	3	3	3	3	3	3	3	3	3	3
9	1374388-AC	INDUCTOR, VAR, 1.8uH	L1	1	1	1	1	1	1	1	1	1	1
10	1374388-AB	INDUCTOR, VAR, 1.5uH	L2	1	1	1	1	1	1	1	1	1	1
11	1379257-01	BRACKET, POT MTG	REF; R1,65	-	-	-	-	-	-	-	-	-	-
12	013-650	DIODE, CD498, 1N270	CR1	1	1	1	1	1	1	1	1	1	1
13	013-689	DIODE, CD6016, 1N3600 SELECT	CR2-6	5	5	5	5	5	5	5	5	5	5
14	013-167	DIODE, ZENER, 8.2V, 1N756A	VR1,2	2	2	2	2	2	2	2	2	2	2
15	230-144	KNOB, CONTROL	REF R1,65	2	2	2	2	2	2	2	2	2	2
16	014-505	TRANSISTOR, PNP, 2N3251	Q2,4,7,13,14,19,20,22	8	8	8	8	8	8	8	8	8	8
17	014-506	TRANSISTOR, NPN, 2N2501	Q3,6,8-12,16,18,21	10	10	10	10	10	10	10	10	10	10
18	014-781	TRANSISTOR, MPS6518	Q1	1	1	1	1	1	1	1	1	1	1
19	580-971	TRANSISTOR, FET, DUAL, E420	Q5	1	1	1	1	1	1	1	1	1	1
20	580-685	TRANSISTOR, FET, J2080	Q15,17	-	-	2	2	2	2	2	2	-	-
21	589-533	MTG, KIT, I.C.	REF: A1	-	-	-	-	-	-	-	-	-	-
22	471-062	SCREW, 4-40 X .375 LG		1	1	1	1	1	1	1	1	1	1
23	496-004	NUT, KEP, 4-40		1	1	1	1	1	1	1	1	1	1
24	037-892	CAPACITOR, TANT, DIPPED, 47uF, 20V	C18,19,66	3	3	3	3	3	3	3	3	3	3
25	037-957	68uF, 15V	C3,7	2	2	2	2	2	2	2	2	2	2
26	037-931	6.8uF, 35V	C9,63,64	3	3	3	3	3	3	3	3	3	3
27	037-812	10uF, 25V	C1	1	1	1	1	1	1	1	1	1	1
28	037-960	TANT, DIPPED, 150uF, 15V	C68	1	1	1	1	1	1	1	1	1	1
29	037-967	TANT, DIPPED, 220uF, 10V,	C13	1	1	1	1	1	1	1	1	1	1
30	064-316	MONO, 2.2uF, 50V	C8,41,42,49,65	5	5	5	5	5	5	5	5	5	5
31	030-963	MONO, .1uF, 100V	C2,5,10,13,20,23-32,39,40,43-47,50-55,59,69	-	30	30	30	30	30	-	-	-	-
32	030-963	MONO, .1uF, 100V	C2,5,10,20,23-32,39,40,43-47,50-55,59,69	29						29	29	29	29
33	035-729	MYLAR, .0015uF, 50V, 5%	C56,57	2	2	2	2	2	2	2	2	2	2
34	055-214	MYLAR, .0012uF, 50V, 5%	C58	1	1	1	1	1	1	1	1	1	1
35	035-828	CAPACITOR, MYLAR, .022uF, 50V, 5%	C60,62	1	2	2	2	2	2	2	1	1	1
36	087-388	H.S. COMP.	REF: A1	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
37	034-219	CAPACITOR, MICA 120pF, 500V, 1%	C38,48	2							2	2	2

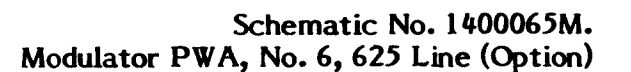
AMPEX Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1400063	SHEET 2 OF 6								
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-11	-02	-03	-04	-05	-06	-07	-08	-09	-10
38	034-215	CAPACITOR, MICA, 10pF, 500V, $\pm .5\text{pF}$	C17,35	2	2	2	2	2	2	2	2	2	2
39	056-105	18pF, 500V, $\pm .5\text{pF}$	C22	1	1	1	1	1	1	1	1	1	1
40	056-140	20pF, 500V, $\pm .5\text{pF}$	C61	1	1	1	1	1	1	1	1	1	1
41	056-412	36pF, 500V, $\pm .5\text{pF}$	C14,36	2	2	2	2	2	2	2	2	2	2
42	056-603	47pF, 500V, $\pm .5\text{pF}$	C37	1	1	1	1	1	1	1	1	1	1
43	034-540	51pF, 500V, 1%	C6	1	1	1	1	1	1	1	1	1	1
44	034-285	75pF, 500V, 1%	C48	-	-	-	-	-	-	-	-	-	-
45	034-222	100pF, 500V, 1%	C21	1	1	1	1	1	1	1	1	1	1
46	034-287	300pF, 500V, 1%	C15,33	2	2	2	2	2	2	2	2	2	2
47	034-313	250pF, 500V, 1%	C11	1	1	1	1	1	1	1	1	1	1
48	034-219	CAPACITOR, MICA, 120pF, 500V, 1%	C38	-	-	-	-	-	-	-	-	-	-
49	056-767	CAPACITOR, MICA, 251pF $\pm .25\%$	C12	1	1	1	1	1	1	1	1	1	1
50	038-292	CAPACITOR, VAR, 1-10pF, 500V	C16,34	2	2	2	2	2	2	2	2	2	2
51	034-177	CAPACITOR, MICA, 100pF, 500V, $\pm 5\%$	C67	-	-	-	-	-	-	-	-	-	-
52	034-688	CAPACITOR, MICA, 30pF, 500V, 1%	C70	1	1	1	1	1	1	1	1	1	1
53	034-240	CAPACITOR, MICA, 220pF, 500V, 5%	C48	-	-	-	-	-	-	-	-	-	-
54	066-938	RESISTOR, C.F., 47 OHM, 1/4W, 5%	R17,27,86,117,121	5	5	5	5	5	5	5	5	5	5
55	076-003	56 OHM, 1/4W, 5%	R11,43	2	2	2	2	2	2	2	2	2	2
56	066-677	68 OHM, 1/4W, 5%	R9,69	2	2	2	2	2	2	2	2	2	2
57	076-045	75 OHM, 1/4W, 5%	R35	1	1	1	1	1	1	1	1	1	1
58	066-984	160 OHM, 1/4W, 5%	R104	1	1	1	1	1	1	1	1	1	1
59	066-859	240 OHM, 1/4W, 5%	R70	1	1	1	1	1	1	1	1	1	1
60	066-814	270 OHM, 1/4W, 5%	R47-50,71,116	6	6	6	6	6	6	6	6	6	6
61	066-665	1K OHM, 1/4W, 5%	R45,63,64,73,89, 97,98,114,115	-	9	9	9	9	9	9	9	9	9
62	066-826	2K OHM, 1/4W, 5%	R26,44,46,110	4	4	4	4	4	4	4	4	4	4
63	066-841	1.3K OHM, 1/4W, 5%	R12	1	1	1	1	1	1	1	1	1	1
64	066-667	3K OHM, 1/4W, 5%	R41,40,90	3	3	3	3	3	3	3	3	3	3
65	066-720	3.3K OHM, 1/4W, 5%	R42,62,66,95,96,99	6	6	6	6	6	6	6	6	6	6
66	066-828	4.3K OHM, 1/4W, 5%	R77,82	-	2	2	2	2	2	2	2	2	2
67	066-668	4.7K OHM, 1/4W, 5%	R67	-	1	1	1	1	1	1	1	1	1
68	066-842	5.1K OHM, 1/4W, 5%	R78,83	-	2	2	2	2	2	2	2	2	2
69	066-718	RESISTOR, C.F., 5.6K OHM, 1/4W, 5%	R108	1	1	1	1	1	1	1	1	1	1
70	580-837	TRANSISTOR, FET J309	Q15,17	-	-	-	-	-	-	-	-	2	2
71	066-711	RESISTOR, C.F., 7.5K OHM, 1/4W, 5%	R103	1	1	1	1	1	1	1	1	1	1
72	066-830	10K OHM, 1/4W, 5%	R72,76,84	3	3	3	3	3	3	3	3	3	3
73	066-847	33K OHM, 1/4W, 5%	R88,102	2	2	2	2	2	2	2	2	2	2
74	066-717	47K OHM, 1/4W, 5%	R109	1	1	1	1	1	1	1	1	1	1
75	066-673	1 MEG OHM, 1/4W, 5%	R39,61,105	3	3	3	3	3	3	3	3	3	3
76	066-666	2.7K OHM, 1/4W, 5%	R51,112	2	2	2	2	2	2	2	2	2	2
77	066-812	RESISTOR, C.F., 100 OHM, 1/4W, 5%	R122	1	1	1	1	1	1	1	1	1	1
78	066-668	RESISTOR, C.F., 4.7K, 1/4W, 5%	R28,67	2	-	-	-	-	-	-	-	2	2
79		SLEEVING, SHRINK, CLEAR	REF: FL1-3	A/R	-	-	-	A/R	A/R	A/R	A/R	A/R	A/R
80	064-314	CAPACITOR, CER MONO, 1.0uF, 50V, 20%	C71	1	1	1	1	1	1	1	1	1	1
81	1400262-01	BRACKET	REF: R1,65	2	2	2	2	2	2	2	2	2	2
82	460-055	RIVET, .088 DIA X .156 LG		4	4	4	4	4	4	4	4	4	4

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400063	SHEET 3 OF 6		REV						
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER											
				-11	-02	-03	-04	-05	-06	-07	-08	-09	-10		
83															
84	041-793	RESISTOR, COMP, 10 MEG OHM, 1/4W, 5%	R111	1											
85	041-801	RESISTOR, COMP, 22 MEG OHM, 1/4W, 5%	R68,85	2											
86	062-880	RESISTOR, M.F., 249 OHM, 1/8W, 1%	R4,81	-											
87	041-010	RESISTOR, COMP, 2K OHM, 1/2W, 5%	R57,87	2											
88	041-885	RESISTOR, COMP, 200 OHM, 1W, 5%	R6	1											
89	062-639	RESISTOR, M.F., 3.01K OHM, 1/8W, 1%	R18,100,101	3											
90	062-643	RESISTOR, M.F., 2K OHM, 1/8 W, 1%	R55, 56	2											
91	058-452	RESISTOR, VAR, 200 OHM	R10	1											
92	058-564	RESISTOR, VAR, 500 OHM	R30,53	2											
93															
94	058-540	RESISTOR, VAR, 5K OHM	R37,113	2											
95	058-459	RESISTOR, VAR, 5K OHM (PANEL MTG)	R1,65	2											
96	062-950	RESISTOR, M.F. 2.74K OHM, 1/8W, 1%	R93,119	2											
97	062-955	3.32K OHM, 1/8W, 1%	R118	1											
98	062-821	49.9 OHM, 1/8W, 1%	R29	1											
99	062-822	51.1 OHM, 1/8W, 1%	R74,75	2											
100	062-833	71.5 OHM, 1/8W, 1%	R58	1											
101	062-836	75 OHM, 1/8W, 1%	R38	1											
102	062-847	100 OHM, 1/8W, 1%	R3,5,8	3											
103	062-875	210 OHM, 1/8W, 1%	R120	1											
104	062-859	130 OHM, 1/8W, 1%	R106	1											
105	062-860	133 OHM, 1/8W, 1%	R14	1											
106	062-877	221 OHM, 1/8W, 1%	R19,24	2											
107	062-880	249 OHM, 1/8W, 1%	R4	1											
108	062-889	357 OHM, 1/8W, 1%	R52	1											
109	062-892	383 OHM, 1/8W, 1%	R13	-											
110	062-897	422 OHM, 1/8W, 1%	R7	1											
111	062-901	475 OHM, 1/8W, 1%	R15	1											
112	062-902	499 OHM, 1/8W, 1%	R81	-											
113	062-905	536 OHM, 1/8W, 1%	R2	1											
114	062-908	604 OHM, 1/8W, 1%	R91	1											
115	076-956	1.010K OHM, 1/8W, 1%	R21	1											
116	062-918	825 OHM, 1/8W, 1%	R31,32	2											
117	062-624	1K OHM, 1/8W, 1%	R33,34	2											
118	062-599	1.3K OHM, 1/8W, 1%	R16	1											
119	062-932	1.5K OHM, 1/8W, 1%	R22	1											
120	062-988	13.7K OHM, 1/8W, 1%	R94	1											
121	062-639	3.01K OHM, 1/8W, 1%	R18,101	-											
122	062-958	3.74K OHM, 1/8W, 1%	R79	-											
123	062-962	4.02K OHM, 1/8W, 1%	R55,56,100	-											
124	062-978	7.68K OHM, 1/8W, 1%	R80	-											
125	062-982	9.09K OHM, 1/8W, 1%	R54	1											
126	066-752	11.8K OHM, 1/8W, 1%	R107	1											
127	062-694	RESISTOR, M.F., 15K OHM, 1/8W, 1%	R92	1											

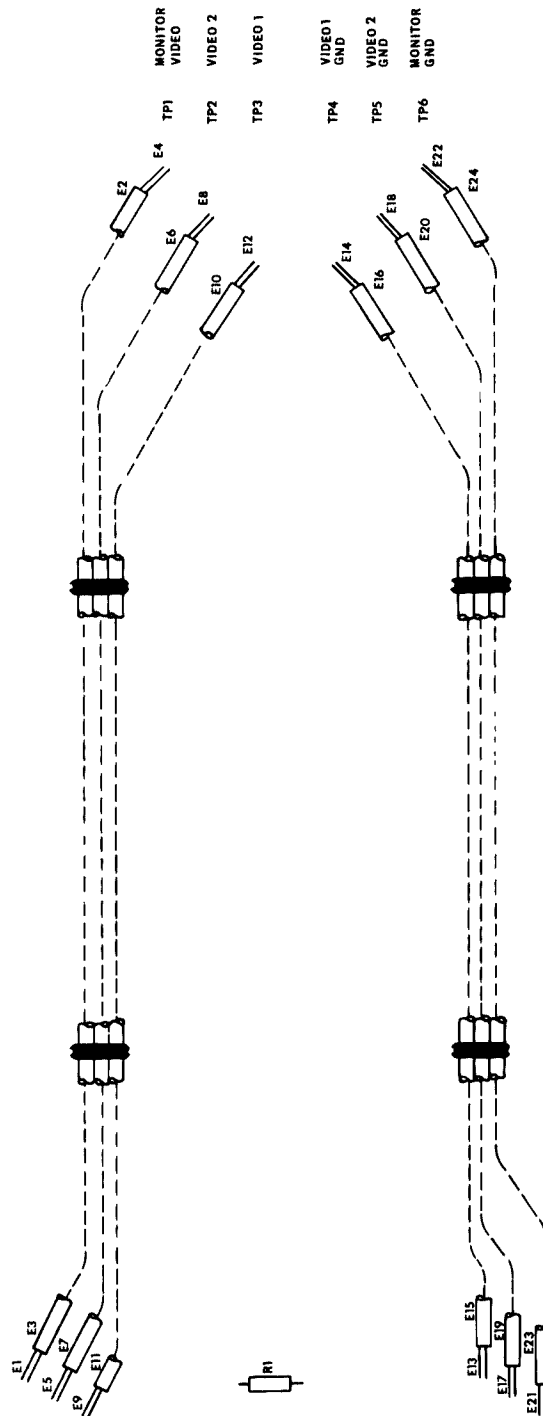
AMPEX Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400063	REV. SHEET 4 OF 6									
ITEM NO.	PART NUMBER	DESCRIPTION	REF. DESIG.	QTY REQD PER DASH NUMBER										
				-11	-01	-02	-03	-04	-05	-06	-07	-08	-09	-10
128	062-995	RESISTOR, M.F., 16.5K OHM, 1/8W, 1%	R60	1										
129	066-014	47.5K OHM, 1/8W, 1%	R36,59	2	2	2	2	2	2	2	2	2	2	2
130	076-955	1.01K OHM, 1/8W, .25%	R25	1										
131	076-957	2.427K OHM, 1/8W, .25%	R23	1										
132	076-958	RESISTOR, M.F., 2.427K OHM, 1/8W, 1%	R20	1										
133	062-985	10.7K OHM, 1/8W, 1%	R28											
134	068-064	INDUCTOR, FIXED 300 uH	L3,4	2	2	2	2	2	2	2	2	2	2	2
135														
136														
137	587-779	INTEGRATED CIRCUIT, MC7905	A1	1										
138	590-330	MC10115	A2	1										
139	586-255	CA3019	A3	1										
140	587-106	NE592	A4	1										
141	586-776	MC1357P	A5	-										
142	590-326	MC10131	A6	1										
143	590-611	UA741	A7,8	2	2	2	2	2	2	2	2	2	2	2
144	586-109	SN7402N	A9	1										
145	590-616	SN74221N	A10	1										
146	586-124	UA710	A11	1										
147	586-335	LM306	A12	1										
148	590-448	INTEGRATED CIRCUIT, LM310	A13	1										
149	589-799	INTEGRATED CIRCUIT, CA2111AE	A5	1										
150	018-019	ADHESIVE	REF: Q1, A6	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
151	143-981	CONNECTOR, JACK, PC TIP	REF: J1-AB, J2-ABCD, J3,4-AB, J5,6-ABC	16	16	16	16	16	16	16	16	16	16	16
152														
153	187-259	TERMINAL LUG	TL1-10	10	10	10	10	10	10	10	10	10	10	10
154	932-035	FERRITE, BEAD	REF: BASE Q2,3	2	2	2	2	2	2	2	2	2	2	2
155	582-167	TRANSISTOR MTG HWE, MICA	REF: A1	1										
156	280-130	PAD, TRANSISTOR MTG	REF: A4,6-14,16,18-22	16	16	16	16	16	16	16	16	16	16	16
157	302-395	CABLE, STRAP		2	2	2	2	2	2	2	2	2	2	2
158	611-208	WIRE, 24 AWG, BLACK		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
159	560-471	TRANSFORMER, RF MCL T1-IT	T1	1										
160														
161	602-012	PLUG, SHORTING	J1-6	6	6	6	6	6	6	6	6	6	6	6
162	506-011	WASHER, BOWED		1										
163	616-569	CABLE COAX, 75 OHM		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
164	616-720	CABLE COAX, 124 OHM		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
165	492-008	NUT, HEX, 4-40		1										
166	283-105	SPACER, PLAIN, .140 ID X .250 OD X .125 LG		1										
167	471-060	SCREW, MACH, PAN HD, 4-40 X .250 LG		1										
168	473-325	SCREW, MACHINE, PAN HD, XREC, 4-40 X .312 LG		-	5	5	5	5	5	5	5	5	5	5
169	471-063	SCREW, MACHINE, PAD HD, XREC, 4-40 X .438 LG		1										
170	501-169	WASHER, SMALL PATTERN #4		-	5	5	5	5	5	5	5	5	5	5
171	502-002	WASHER, LOCK #4		1										
172	501-976	WASHER, SHOULDER, NYLON		1										



Assembly No. 1400063-11V. Modulator PWA, No. 6, 625 Line (Option)

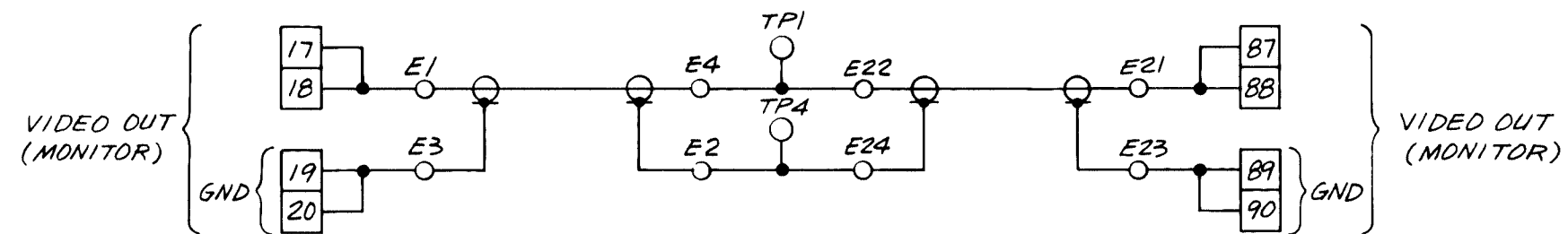


VIDEO BY PASS
 ASSY NO. 1401070-
 SCHE NO. 1401072
 ARTWORK ISSUE LTR C

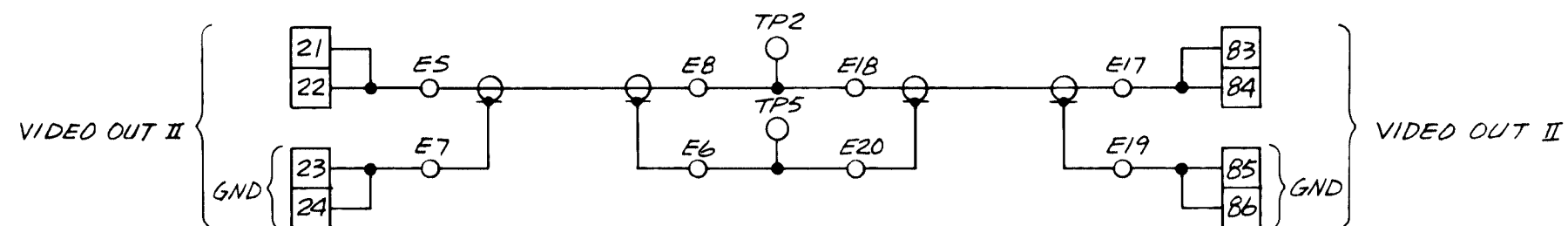


Assembly No. 1401070-02F. Video Bypass PWA, No. 7

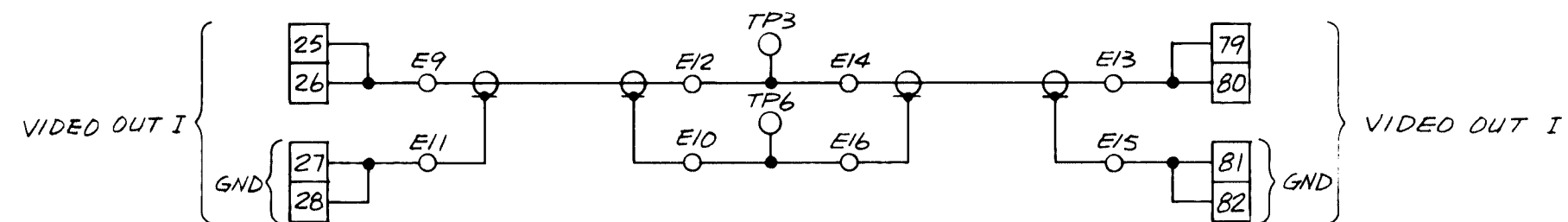
D



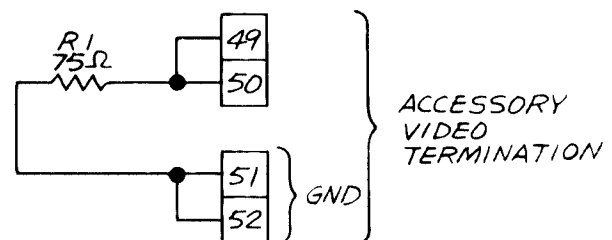
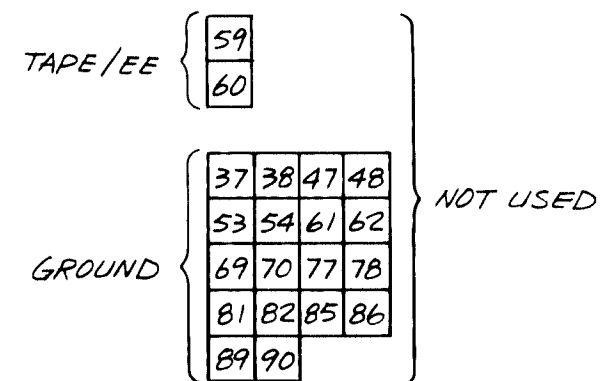
C



B



A



NOTES:

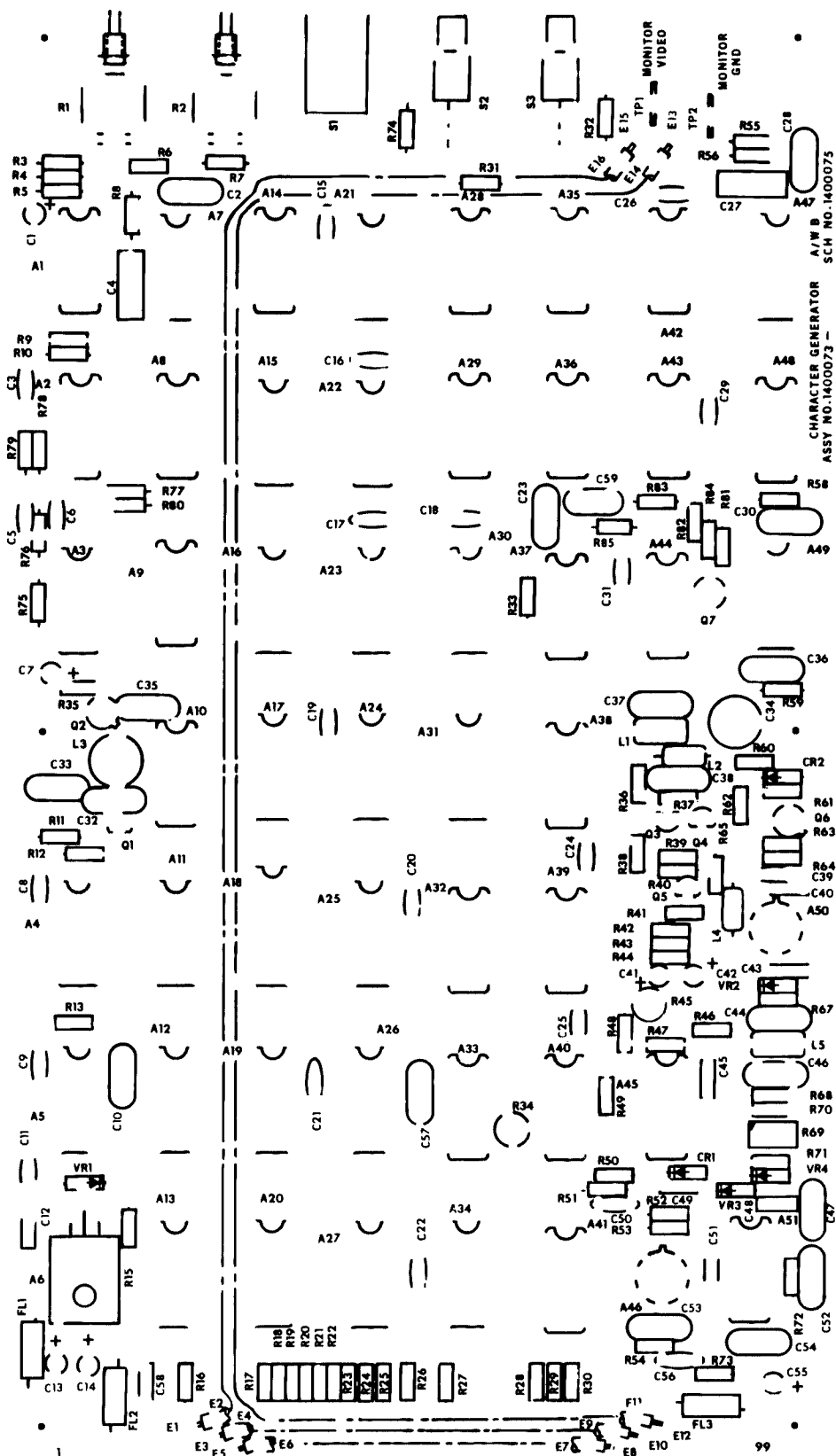
1. SCHEMATIC REFLECTS PWA 1401070-02.

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02								
1				-01	-								
2													
3	1400075	SCHEMATIC		(-01)	8								
4	1400261-02	KNOB, MACHINED	REF: S1	1	1								
5	1400003-01	SHIELD		1	1								
6	1400004-01	HANDLE		1	1								
7	1400005-AW	LABEL		1	1								
8	1377230	PROM 63S141	A18	-01	-01								
9	1400310	PROM 74S287	A23	-01	-01								
10	051-770	INDUCTOR FILTER	FL1-3	3	3								
11	013-358	DIODE, ZENER, 5.1V, 1W751A	VR1	1	1								
12	013-172	DIODE, ZENER, 4.3V, 1W749A	VR3,4	2	2								
13	013-983	DIODE, ZENER, 5.6V, 1W752A	VR2	1	1								
14	013-599	DIODE, SIGNAL, 1N4531	CR1,2	2	2								
15	580-453	TRANSISTOR, 2N5639	Q1	1	1								
16	014-506	TRANSISTOR, 2N2501	Q2,6,7	3	3								
17	014-780	TRANSISTOR MPS6514	Q3,4,5	3	3								
18	075-274	WIRING BOARD	REF: R1,2	2	2								
19	075-273	MTG. PLATE	REF: R1,2	2	2								
20	034-962	CAPACITOR, MICA, 33pF, 500V, 5%	C32,37	2	2								
21	064-116	CAPACITOR, CER., .1uF, 50V	C3,5,6,8,9,11,15-22,24-26,29,31,39,50,56	22	22								
22	030-963	CER., .1uF, 100V 10%	C40,43	2	2								
23	034-199	MICA, 300pF, 500V, $\pm 5\%$	C52	1	1								
24	064-314	MONO., 1.0uF, 50V, 20%	C48,51	2	2								
25	064-062	MONO., .1uF, 100V	C12,45,58,49	4	4								
26	056-697	MICA, 7pF, 500V, $\pm .5pF$	C33	1	1								
27	034-532	MICA, 1pF, 500V, $\pm .5pF$	C47	1	1								
28	034-156	5pF, 500V, $\pm .5pF$	C35	1	1								
29	034-215	10pF, 500V, $\pm .5pF$	C37	1	-								
30	034-945	12pF, 500V, $\pm 5\%$	C54	1	1								
31	034-177	100pF, 500V, 5%	C23,57	2	2								
32	034-688	30pF, $\pm .5pF$, 500V	C10,53	2	2								
33	034-962	33pF, 500V, 5%	C32	1	-								
34	034-937	160pF, 500V, 5%	C38	1	1								
35	034-919	270pF, 500V, 1%	C2	1	1								
36	034-241	360pF, 500V, 1%	C28,30	2	2								
37	056-216	CAPACITOR, MICA, 500pF, 500V, 1%	C36	1	1								

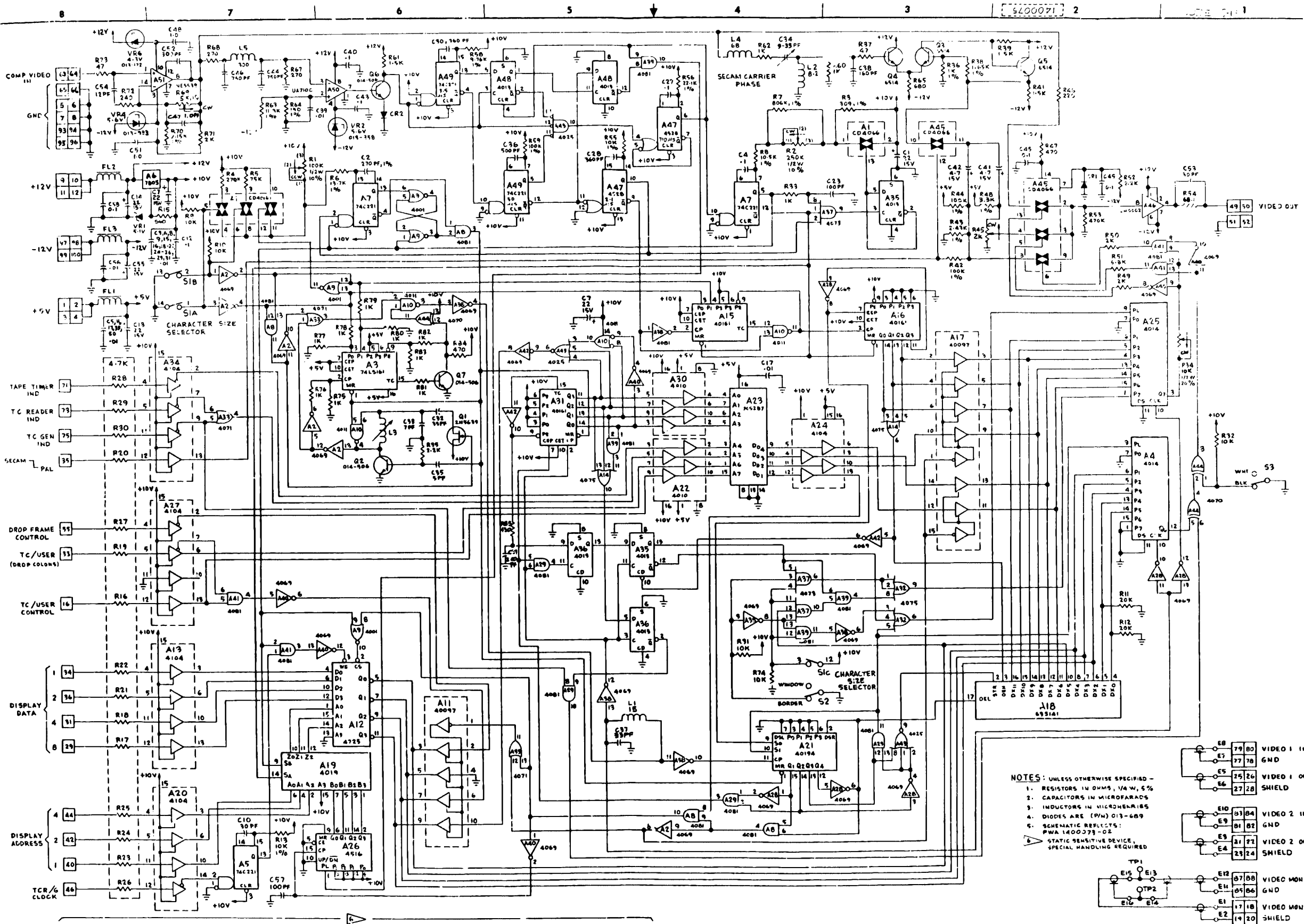
AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400073	SHEET 2 OF 5		REV D						
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01	-02										
38	034-320	CAPACITOR, MICA, 750pF, 300V, 5%	C44,46	2	2										
39	034-286	CAPACITOR, MICA, 200pF, 500V, 5%	C59		1										
40	038-254	CAPACITOR, VAR, 9-35pF, 100V	C34	1	1										
41	035-893	CAPACITOR, MYLAR., .1uF, 50V, 5%	C4,27	2	2										
42	037-954	CAPACITOR, TANT, 22uF, 15V	C1,7,13,14,55	5	5										
43	037-962	CAPACITOR, TANT, 4.7uF, 10V	C41,42	2	2										
44	066-814	RESISTOR, C.F., 270 OHMS, 1/4W, 5%	R67,68		2										
45	066-677	RESISTOR, C.F., 68 OHM, 1/4W, 5%	R54	1	1										
46	066-826	2K OHM,	R49,50,71	3	3										
47	066-824	1.5K OHM	R39,41,61	3	3										
48	066-938	47 OHM	R37,40,73	3	3										
49	066-859	240 OHM	R72	1	1										
50	066-818	470 OHM	R47, 84	2	2										
51	066-839	560 OHM	R15	1	1										
52	066-840	680 OHM	R65	1	1										
53	066-820	750 OHM	R67,68	2	-										
54	066-663	220 OHM	R46	1	1										
55	066-668	4.7K OHM	R16-30	5	15										
56	066-665	1K OHM	R33,60,62,75-83	2	12										
57	066-689	2.2K OHM	R35,52	2	2										
58	066-830	10K OHM	R9,10,31,32,74	5	5										
59	066-873	20K OHM	R11,12	2	2										
60	066-652	470K OHM	R53	1	1										
61	066-829	6.8K OHM	R51	1	1										
62	076-050	270K OHM	R4	1	1										
63	066-958	C.F., 75K OHM 1/4W, 5%	R5	1	1										
64	062-864	M.F., 150 OHM 1/8W, 1%	R64	1	1										
65	062-885	309 OHM	R3	1	1										
66	062-642	6.81K OHM	R48	1	-										
67	066-442	10.5K OHM	R8	1	1										
68	066-925	22.1K OHM	R56	1	1										
69	066-802	9.76K OHM	R58	1	1										
70	062-983	10K OHM	R13,55	2	2										
71	066-752	11.8K OHM	R63	1	1										
72	062-601	100K OHM	R42,44,59	3	3										
73	066-193	2.15K OHM	R70	1	1										
74	076-384	806K OHM	R7	1	1										
75	062-943	2.32K OHM	R69	1	-										
76	062-935	1.65K OHM	R38	1	1										
77	062-624	1K OHM	R36	1	1										
78	062-988	13.7K OHM	R6	1	1										
79															
80	062-945	2.43K OHM	R43	1	1										
81	062-950	RESISTOR, M.F., 2.74K OHM 1/8W, 1%	R45	1	-										
82	066-720	RESISTOR, C.F., 3.3K OHM, 1/4W, 5%	R48		1										

AMPEX		CODE IDENT NO. 92739		LIST OF MATERIALS		LM-1400073		SHEET 3 OF 5		REV D	
ITEM NO.	PART NUMBER	DESCRIPTION		REF DESIGN	QTY REQD PER DASH NUMBER						
					-02						
83	058-611	RESISTOR, VAR., 10K OHM, 1/2W, 20%		R34		1					
84	058-809	RESISTOR, VAR., 100K OHM, 1/2W, 10%		R1		1					
85	075-164	RESISTOR, VAR., 250K OHM, 1/2W, 10%		R2		1					
86	058-540	RESISTOR, VAR., 5K OHM, 1/2W, 10%		R69		1					
87	068-064	INDUCTOR, FIXED, 300uH, 5%		L5		1					
88	051-870	INDUCTOR, FIXED, 10uH, 5%		L1		-					
89	540-017	INDUCTOR, FIXED, 68uH		L4		1					
90	540-028	INDUCTOR, FIXED, 8.2uH		L2		1					
91	541-070	INDUCTOR, VAR., 22uH, ±20%		L3		1					
92	119-724	SWITCH, TOGGLE, SPDT		S2,3		2					
93	122-494	SWITCH, DIP, ROTARY, 6P6POS		S1		1					
94	044-943	RESISTOR, VAR., 2K OHM, 1/2W, 20%		R45		1					
95	586-124	INTEGRATED CIRCUIT, UA710HC		A50		1					
96	586-315	LH0002CH		A46		1					
97	589-973	NE5539N		A51		1					
98	589-298	F4001PC		A9		1					
99	587-772	74LS161		A3		1					
100	587-909	F4011PC		A10		1					
101	589-315	F4013PC		A35,36,42		3					
102	589-299	F4014PC		A4,25		2					
103	587-990	F4019PC		A19		1					
104	589-300	F4025PC		A43		1					
105	589-301	F4069PC		A2,28,38,40,42		5					
106	589-302	F4071PC		A33		1					
107	589-303	F4073PC		A37		1					
108	589-304	F4075PC		A14,32		2					
109	589-305	F4077PC		A44		1					
110	589-306	F4081PC		A8,29,39,41		4					
111	589-307	F4104PC		A13,20,24,27,34		5					
112	589-308	F4516PC		A26		1					
113	589-309	F4528PC		A47		1					
114	589-310	F4725PC		A12		1					
115	589-311	F40097PC		A11,17		2					
116	589-312	F40161PC		A15,16,31		3					
117	589-313	F40194PC		A21		1					
118	587-680	CD4066AE		A1,45		2					
119	589-019	74C221		A5,7,49		3					
120	587-959	CD4010BE		A22,30		2					
121	587-438	INTEGRATED CIRCUIT, 7805CT		A6		1					
122	582-134	SOCKET, 16 PIN		REF: A23		1					
123	582-161	SOCKET, 18 PIN		REF: A18		1					
124	230-144	KNOB		REF: R1,2		2					
125											
126	280-130	SPACER, TRANSISTOR T0-18				2					
127	283-105	SPACER, PLAIN, .140 ID, .125 LG				1					

[illegible]



Assembly No. 1400073-02D. Character Generator PWA, No. 7 (Accessory)



NOTES: UNLESS OTHERWISE SPECIFIED -
 1. RESISTORS IN OHMS, 1/4W, 5%
 2. CAPACITORS IN MICROFARADS
 3. INDUCTORS IN MICROHENRIES
 4. DIODES ARE (P/N) 013-689
 5. SCHEMATIC REFLECTS:
 PWA 1400075-02
 6. STATIC SENSITIVE DEVICE,
 SPECIAL HANDLING REQUIRED

VIDEO 1 IN
 VIDEO 1 OUT
 SHIELD
 VIDEO 2 IN
 VIDEO 2 OUT
 SHIELD
 VIDEO MON IN
 VIDEO MON OUT
 SHIELD

PER DESIG	A50	A51	A10	A4,25	A43	A33	A14,32	A8,33,39,41	A26	A12	A19,16,31	A1,49	A22,30	A18	FIELD SERVICE SUBST. LIST	REF DESIG
AMPEX P/N	586-124	589-973	587-909	589-199	589-300	589-302	589-415	589-306	589-308	589-310	589-312	587-680	587-949	1977230	015-988	AS1
VENDOR P/N	UH710HC	NE5539N	F4011PC	F4014PC	F4025PC	F4027PC	4075	F4011PC	F4516PC	F4725PC	F4016PC	CD4066AE	4010	635141	015-689	AS1
VOLTAGE P/N	+15(8),-12(4)	—	+10(14)	+10(16)	+10(14)	+10(14)	+10(14)	+10(16)	+10(16)	+10(16)	+10(16)	+10(16)	+10(16)	+10(16)	015-689	AS1
GROUND P/N	1	7	7	8	7	7	7	7	8	8	8	8	8	8	015-689	AS1
REF DESIG	A46	A9	A35,36,48	A19	A2,38,39, 40,42	A37	A44	A19,30,38, 37,34	A47	A11,17	A21	A9,7,49	A6	A23	AS	AS1
AMPEX P/N	586-115	589-198	589-315	587-460	589-301	587-914	589-307	589-309	589-311	587-919	589-019	587-438	1400075	587-772	015-689	AS1
VENDOR P/N	LH07025H	F4011PC	F4013PC	4014	F4069PC	4075	F4070PC	F4104PC	F4528PC	F40097PC	4019A	74C221	7405CT	74C93B7	74LS161	AS1
VOLTAGE P/N	+12(14),-12(14)	+10(14)	+10(16)	+10(16)	+10(14)	+10(14)	+10(14)	+10(14)	+10(14)	+10(16)	+10(16)	+10(16)	+10(16)	+10(16)	+10(16)	AS1
GROUND P/N	—	7	7	8	7	7	7	8	8	8	8	8	8	8	8	AS1

Schematic No. 1400075B.
 Character Generator PWA, No. 7 (Option)

PROM CODING CHART

ADDRESS:		HEX ADDRESS																INPUT ADDRESS	
HEX	DECIMAL	000	004	008	00C	010	014	018	01C	020	024	028	02C	030	034	038	03C	A0	SCAN COUNT 1
A0	160																	A0	"
A1	164																	A1	"
A2	168																	A2	"
A3	172																	A3	"
A4	176																	A4	"
A5	180																	A5	TAPE TIMER INDICATOR
A6	184																	A6	TCR/G INDICATOR
A7	188																	A7	DROP COLONS
A8	192																	A8	TC/USER CONTROL
A9	196																	A9	
ADDRESS:		HEX ADDRESS																INPUT ADDRESS	
HEX	DECIMAL	000	004	008	00C	010	014	018	01C	020	024	028	02C	030	034	038	03C	A0	SCAN COUNT 1
D0	208																	D0	"
D1	212																	D1	"
D2	216																	D2	"
D3	220																	D3	"
D4	224																	D4	"
D5	228																	D5	"
D6	232																	D6	"
D7	236																	D7	"
ADDRESS:		HEX ADDRESS																INPUT ADDRESS	
HEX	DECIMAL	000	004	008	00C	010	014	018	01C	020	024	028	02C	030	034	038	03C	A0	SCAN COUNT 1
A0	160																	A0	"
A1	164																	A1	"
A2	168																	A2	"
A3	172																	A3	"
A4	176																	A4	"
A5	180																	A5	TAPE TIMER INDICATOR
A6	184																	A6	TCR/G INDICATOR
A7	188																	A7	DROP COLONS
A8	192																	A8	TC/USER CONTROL
A9	196																	A9	
ADDRESS:		HEX ADDRESS																INPUT ADDRESS	
HEX	DECIMAL	000	004	008	00C	010	014	018	01C	020	024	028	02C	030	034	038	03C	A0	SCAN COUNT 1
D0	208																	D0	"
D1	212																	D1	"
D2	216																	D2	"
D3	220																	D3	"
D4	224																	D4	"
D5	228																	D5	"
D6	232																	D6	"
D7	236																	D7	"

- NOTES
1. PROM PART NO. IS 1400310-01
 2. MAKE FROM AMPLEX PART NO. 589-676
 3. PROGRAM AND MARK PER SC 1400310
 4. PAPER TAPE PT. 1400310-01
 5. PROM SIGNATURE IS 98_929

1400086-04

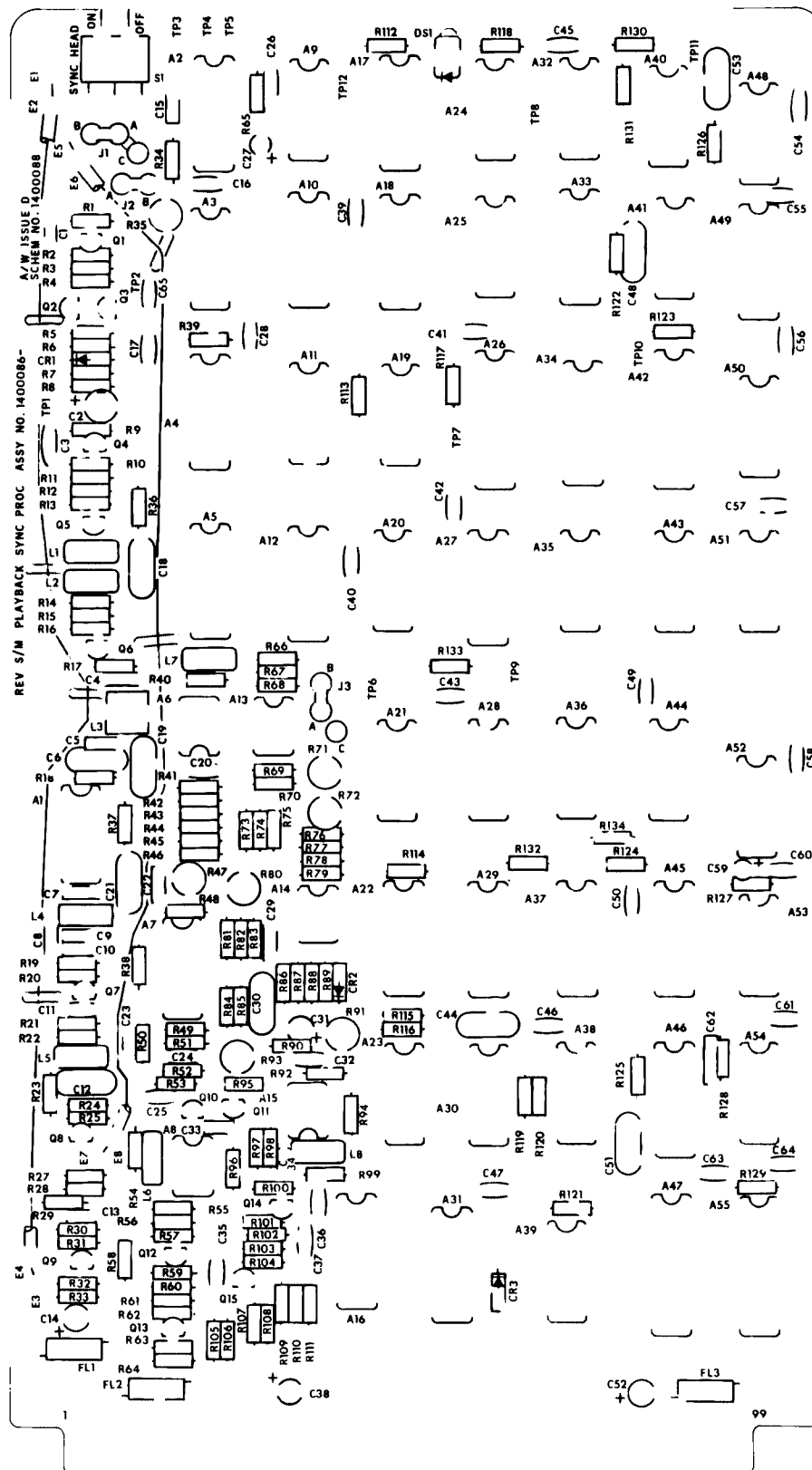
PLAYBACK SYNC PROCESSOR PWA, NO. 8
(AST) (ACCESSORY)
NEXT HIGHER ASSEMBLY 1400809

REV. K

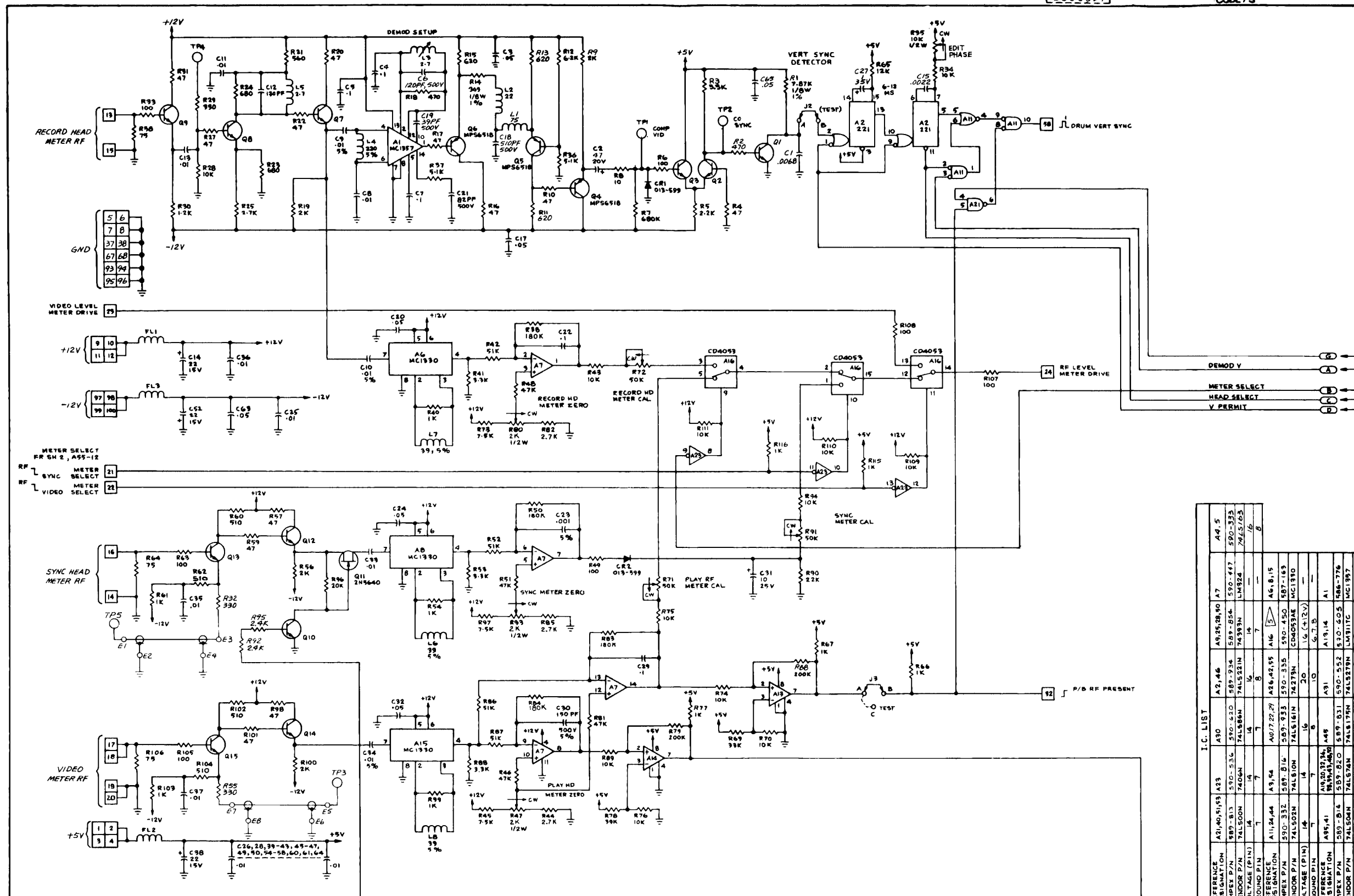
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01	-02	-03	-04								
1				03	03	04									
2															
3	1400088	SCHEMATIC		A	B	C	E								
4															
5	1400003-01	SHIELD				1	1								
6	1400004-01	HANDLE				1	1								
7	1400005-AX	LABEL				1	1								
8	051-770	INDUCTOR, FILTER	FL1-3		3	3	3								
9	1374388-AE	INDUCTOR, VAR., 2.7uH	L3			1	1								
10	1400320	PROM, COMP., SYNC, GEN	A12	-01	01	01	01								
11	1400321	PROM, PLAYBACK, VERT.	A33	-03	03	03	03								
12	1400322	PROM, JUMP V. SIG.	A34	-04	04	04	04								
13	1400323	PROM, POST SWITCH	A49	-02	02	02	02								
14	1400324	PROM, JUMP	A18	-01	01	01	01								
15	1400325	PROM, INPUT SYNC	A27	-01	01	01	01								
16	1400326	PROM, TACH GATE	A37	-04	04	04	04								
17	1400327	PROM, LOGIC	A47	-05	05	05	05								
18															
19	581-620	LED, AMBER	DS1			1	1								
20	013-599	DIODE, SIGNAL, 1N4531	CR1,2,3		3	3	3								
21															
22	014-780	TRANSISTOR, NPN, MPS6514	Q1-3,7-10,12-15	11	11	1	11								
23	014-781	TRANSISTOR, PNP, MPS6518	Q4,5,6				3								
24	580-381	TRANSISTOR, 2N5640	Q11				1								
25															
26	037-887	CAPACITOR, TANT, .47uF	C59			1	1								
27	037-591	CAPACITOR, TANT, 1uF, 35V	C27			1	1								
28	037-812	CAPACITOR, TANT, 10uF, 25V	C31			1	1								
29	037-954	CAPACITOR, TANT, 22uF, 15V	C14,38,52		3	3	3								
30	037-892	CAPACITOR, TANT, 47uF, 20V	C2			1	1								
31															
32	069-109	CAPACITOR, POLY, .0022uF, 50V, 5%	C15		1	1	1								
33	069-105	CAPACITOR, POLY, .0068uF, 50V, 5%	C1		1	1	1								
34	069-090	CAPACITOR, POLY, .001uF, 50V, 5%	C23		1	1	1								
35	069-100	CAPACITOR, POLY, .01uF, 50V, 5%	C8-10,13,33,34		6	6	6								
36	069-093	CAPACITOR, POLY, .056uF, 50V, 5%	C62		1	1	1								
37															

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400086 SHEET 2 OF 5	REV K								
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01	-02	-03	-04								
38	064-116	CAPACITOR, CER., .01uF, 50V C11,26,28,35-37,39-43,45-47 49,50,54-58,60, 61,64,25		25	25	25	25								
39															
40	064-569	CAPACITOR, CER., .05uF, 50V C3,16,17,20,24,32,63,65		8	8	8	8								
41	064-062	CAPACITOR, MONO., .1uF, 50V C4,5,7,22,29		5	5	5	5								
42															
43	034-180	CAPACITOR, MICA, 39pF, 500V, 5% C19		1	1	1	1								
44	034-940	CAPACITOR, MICA, 82pF, 500V, 5% C21		1	1	1	1								
45	034-961	CAPACITOR, MICA, 120pF, 500V, 5% C6		1	1	1	1								
46	034-439	CAPACITOR, MICA, 130pF, 500V, 5% C12		1	1	1	1								
47	034-213	CAPACITOR, MICA, 150pF, 500V, 5% C30		1	1	1	1								
48	034-288	CAPACITOR, MICA, 390pF, 500V, 5% C44,48,53		3	3	3	3								
49	034-177	CAPACITOR, MICA, 100pF, 500V, 5% C51		1	1	1	1								
50	034-932	CAPACITOR, MICA, 510pF, 500V, 5% C18		1	1	1	1								
51	066-720	RESISTOR, C.F., 3.3K OHM, 1/4W, 5% R3,41,44,53, 82,85,88,125		6	(+)	(-)	(-)								
52	066-873	RESISTOR, C.F., 20K OHM, 1/4W, 5% R96		1	1	1	1								
53	066-810	RESISTOR, C.F., 10 OHM, 1/4W, 5% R8		1	1	1	1								
54	066-720	RESISTOR, C.F., 3.3K OHM, 1/4W, 5% R3,41,53,88,125		5	5	5	5								
55	076-045	RESISTOR, C.F., 75 OHM, 1/4W, 5% R58,64,106		3	3	3	3								
56	066-812	RESISTOR, C.F., 100 OHM, 1/4W, 5% R6, 33,49,63, 105,107,108		8	8	8	7								
57	066-662	RESISTOR, C.F., 200 OHM, 1/4W, 5% R119,122,126		3	3	3	3								
58	066-938	RESISTOR, C.F., 47 OHM, 1/4W, 5% R4,10,16,17,20,22,27,31, 57,59,98,101,134		13	13	13	13								
59	066-838	RESISTOR, C.F., 330 OHM, 1/4W, 5% R29,32		2	2	2	2								
60	066-816	RESISTOR, C.F., 390 OHM, 1/4W, 5% R118		1	1	1	1								
61	066-818	RESISTOR, C.F., 470 OHM, 1/4W, 5% R2,18		2	2	2	2								
62															
63	066-839	RESISTOR, C.F., 560 OHM, 1/4W, 5% R21		1	1	1	1								
64	066-819	RESISTOR, C.F., 620 OHM, 1/4W, 5% R11,13,15		3	3	3	3								
65															
66	066-665	RESISTOR, C.F., 1K OHM, 1/4W, 5% R40,54,61,66,67,77, 99,103,115,116		10	10	10	10								
67	066-715	RESISTOR, C.F., 1.2K OHM, 1/4W, 5% R30		1	1	1	1								
68	066-826	RESISTOR, C.F., 2K OHM, 1/4W, 5% R9,19,56,100		4	4	4	4								
69	066-689	RESISTOR, C.F., 2.2K OHM, 1/4W, 5% R5		1	1	1	1								
70	066-666	RESISTOR, C.F., 2.7K OHM, 1/4W, 5% R25		1	(-)	(-)	(-)								
71	066-666	RESISTOR, C.F. 2.7K OHM, 1/4W, 5% R25,44,82,85		4	4	4	4								
72	066-668	RESISTOR, C.F., 4.7K OHM, 1/4W, 5% R127,132		2	2	2	2								
73	066-842	RESISTOR, C.F., 5.1K OHM, 1/4W, 5% R36,37		2	2	2	2								
74	066-843	RESISTOR, C.F., 6.2K OHM, 1/4W, 5% R12		1	1	1	1								
75	066-711	RESISTOR, C.F., 7.5K OHM, 1/4W, 5% R45,73,97		3	3	3	3								
76															
77															
78	066-865	RESISTOR, C.F., 12K OHM, 1/4W, 5% R65		1	1	1	1								
79															
80	066-847	RESISTOR, C.F., 33K OHM, 1/4W, 5% R69,128		2	2	2	2								
81	066-860	RESISTOR, C.F., 39K OHM, 1/4W, 5% R78		1	1	1	1								

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400086	SHEET 3 OF 5		REV K						
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER											
				-01	-02	-03	-04								
82	066-867	RESISTOR, C.F., 51K OHM, 1/4W, 5%	R42,52,86,87	4	4	4	4								
83	066-868	RESISTOR, C.F., 120K OHM, 1/4W, 5%	R38,50,83,84	4	(-)	(-)	(-)								
84	066-853	RESISTOR, C.F., 200K OHM, 1/4W, 5%	R68,79	2	2	2	2								
85	076-013	RESISTOR, C.F., 680K OHM, 1/4W, 5%	R7	1	1	1	1								
86	066-712	RESISTOR, C.F., 22K OHM, 1/4W, 5%	R90	1	1	1	1								
87	066-717	RESISTOR, C.F., 47K OHM, 1/4W, 5%	R46,48,51,81	4	4	4	4								
88	066-928	RESISTOR, C.F., 2.4K OHM, 1/4W, 5%	R92,95	2	2	2	2								
89	062-885	RESISTOR, M.F., 309 OHM, 1/8W, 1%	R14	1	1	1	1								
90	062-979	RESISTOR, M.F., 7.87K OHM, 1/8W, 1%	R1	1	1	1	1								
91	066-868	RESISTOR, C.F. 120K OHM, 1/4W, 5%	R84		1	1	-								
92	058-004	RESISTOR, VAR., 1K OHM, 1/2W	R47,80,93	3	3	3	-								
93	058-611	RESISTOR, VAR., 10K OHM, 1/2W	R35	1	1	1	1								
94	058-001	RESISTOR, VAR., 50K OHM	R71,72,91	3	3	3	3								
95	066-830	RESISTOR, C.F., 10K OHM, 1/4W, 5%	R28,34,39,43,70,74-76, 89,109-114,117,120,121, 123,94,124,129,130,131, 133	25	25	25	25								
96	076-011	RESISTOR, C.F. 180K OHMS, 1/4W, 5%	R38,50,83		3	3	-								
97	051-900	INDUCTOR, FIXED, 2.7uH, 10%	L5	1	1	1	1								
98	051-907	INDUCTOR, FIXED, 22uH, 10%	L2	1	1	1	1								
99	068-046	INDUCTOR, FIXED, 39uH, 5%	L6-8	3	3	3	3								
100	068-060	INDUCTOR, FIXED, 75uH, 5%	L1	1	1	1	1								
101	051-354	INDUCTOR, FIXED, 220uH, 5%	L4	1	1	1	1								
102	590-333	INTEGRATED CIRCUIT, 74LS163	A4,5	2	2	2	2								
103	589-813	INTEGRATED CIRCUIT, 74LS00N	A21,40,51,53	4	4	4	4								
104	590-332	INTEGRATED CIRCUIT, 74LS02N	A11,24,44	3	3	3	3								
105	589-814	INTEGRATED CIRCUIT, 74LS04N	A35,41	2	2	2	2								
106	590-536	INTEGRATED CIRCUIT, 7406N	A23	1	1	1	1								
107	589-816	INTEGRATED CIRCUIT, 74LS10N	A3,54	2	2	2	2								
108	589-820	INTEGRATED CIRCUIT, 74LS74N	A19,20,32,36,38,39, 43,48,52	9	9	9	9								
109	590-620	INTEGRATED CIRCUIT, 74LS86N	A30	1	1	1	1								
110	589-933	INTEGRATED CIRCUIT, 74LS161N	A10,17,22,29	4	4	4	4								
111	589-831	INTEGRATED CIRCUIT, 74LS175N	A45	1	1	1	1								
112	589-934	INTEGRATED CIRCUIT, 74LS221N	A2,46	2	2	2	2								
113	590-335	INTEGRATED CIRCUIT, 74LS273N	A26,42,55	3	3	3	3								
114	590-552	INTEGRATED CIRCUIT, 74LS279N	A31	1	1	1	1								
115	590-450	INTEGRATED CIRCUIT, CD4053AE	A16	1	1	1	1								
116	590-605	INTEGRATED CIRCUIT, LM311TC	A13,14	2	2	2	2								
117	590-447	INTEGRATED CIRCUIT, LM324	A7	1	1	1	1								
118	587-163	INTEGRATED CIRCUIT, MC1330	A6,8,15	3	3	3	3								
119	586-776	INTEGRATED CIRCUIT, MC1357	A1	1	1	1	1								
120	589-854	INTEGRATED CIRCUIT, 74393N	A9,25,28,50	4	4	4	4								
121	582-134	I.C. SOCKET (16 PIN)	REF: A12,18,27,33,37,49	6	6	6	6								
122	582-102	I.C. SOCKET (18 PIN)	REF: A34	1	1	1	1								
123	582-153	I.C. SOCKET (20 PIN)	REF: A47	1	1	1	1								
124	280-130	TRANSISTOR SPACER	REF: DS1	1	1	1	1								
125															



Assembly No. 1400086-04K. Playback Sync Processor PWA, No. 8 (AST) (Accessory)



- NOTES: UNLESS OTHERWISE SPECIFIED —
1. RESISTORS ARE IN OHMS, 1/4W, 5%.
 2. CAPACITORS ARE IN MICROFARADS, 50V.
 3. INDUCTORS ARE IN MICROHENRIES.
 4. TRANSISTORS ARE TYPE MPS6514.
 5. STATIC SENSITIVE SPECIAL HANDLING REQUIRED PER HEI 1.
 6. SCHEMATIC REFLECTS PWA 1400086-04.

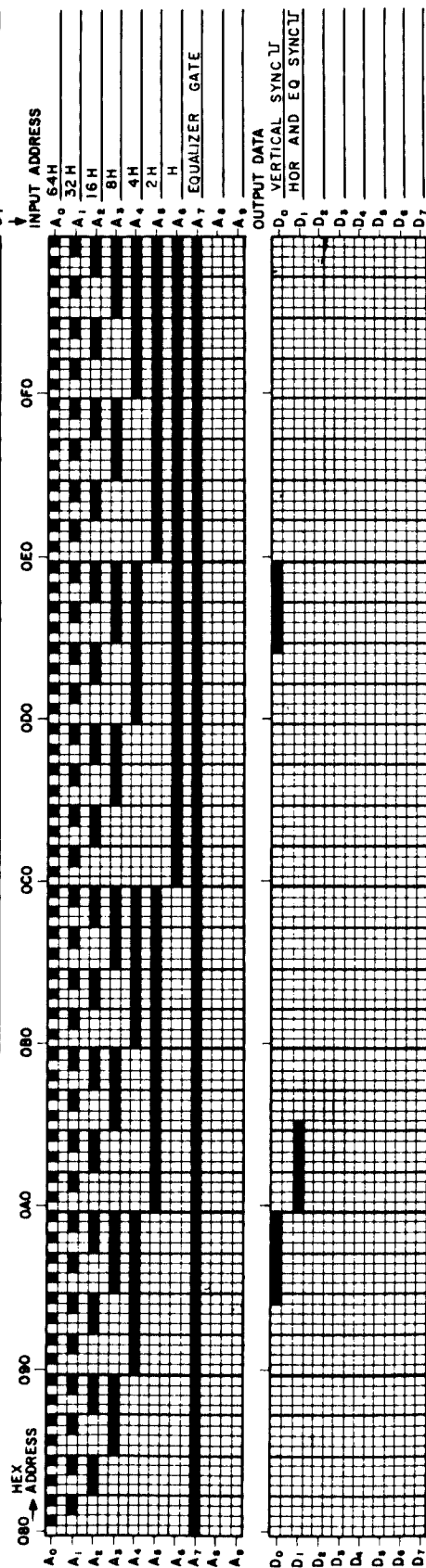
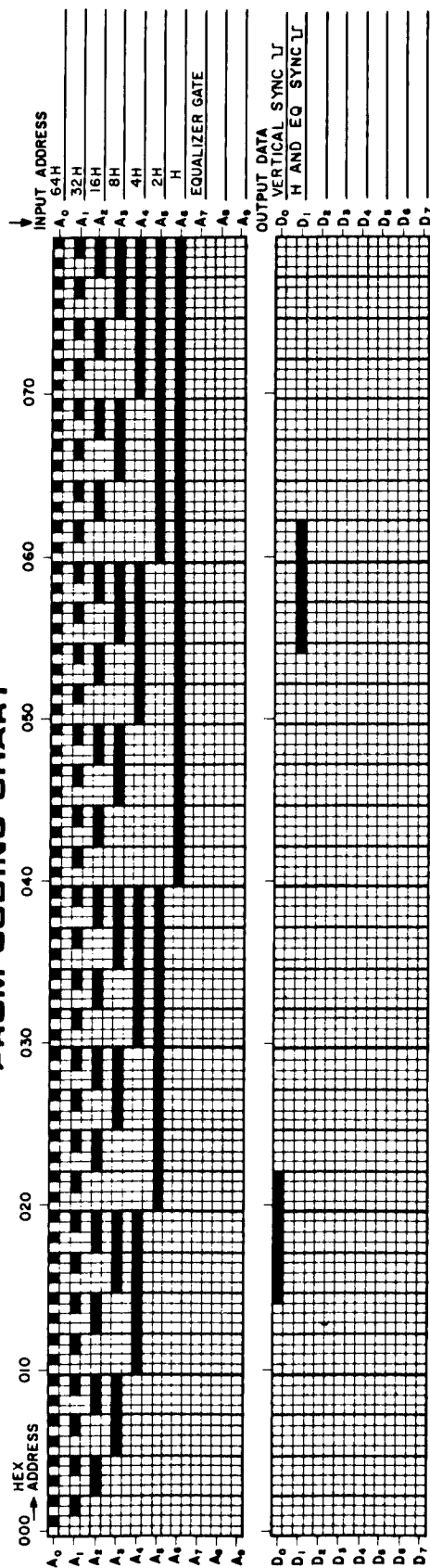
REFERENCE DESIGNATIONS	
LAST USED	NOT USED
A55	
C65	
CR3	
DE1	
FL3	
J3	
L8	
Q15	
R134	
S1	
TP12	
EB	
	R26

I.C. LIST	
REFERENCE DESIGNATION	MANUFACTURER
A30	590-420
A31	590-420
A32	590-420
A33	590-420
A34	590-420
A35	590-420
A36	590-420
A37	590-420
A38	590-420
A39	590-420
A40	590-420
A41	590-420
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A99	590-420
A100	590-420

SYNC METER GATE
DROPOUT INTERVAL

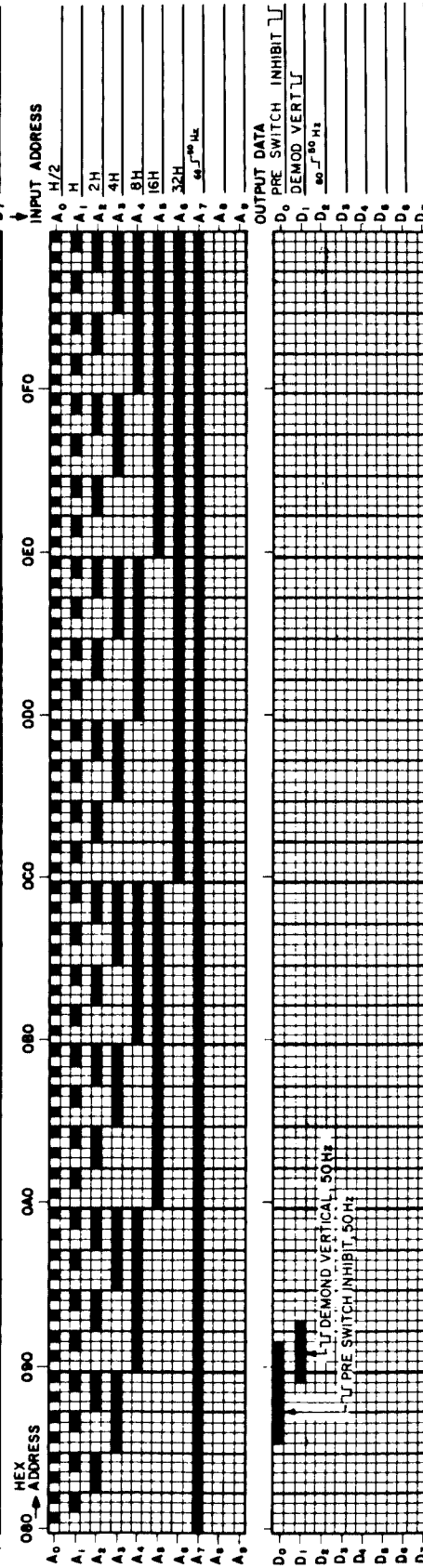
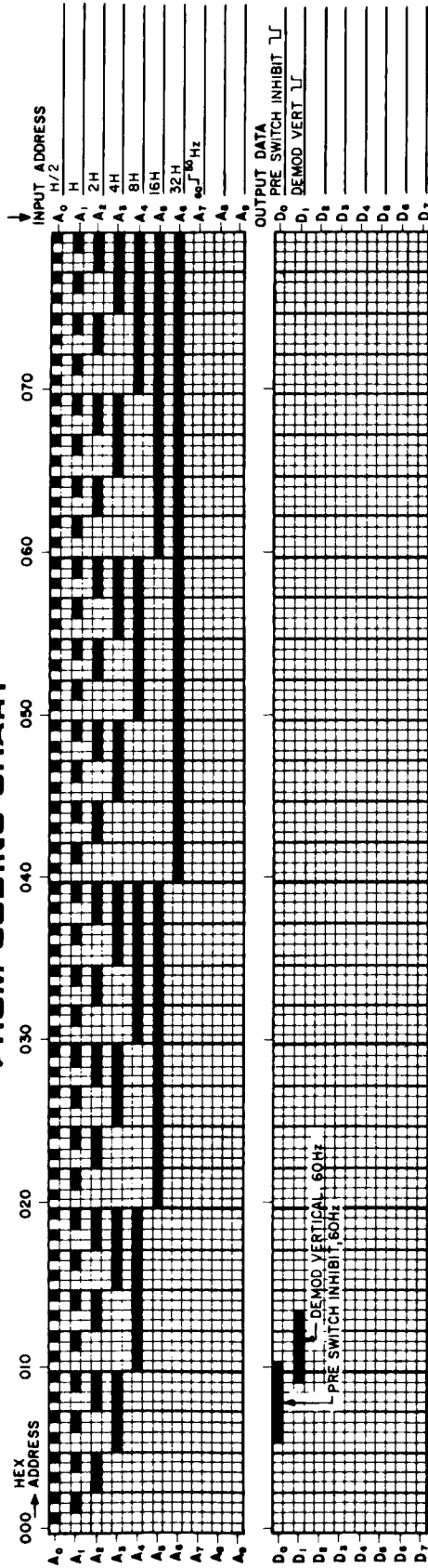
Schematic No. 140088E.
Playback Sync Processor PWA, No. 8,
AST (Accessory) (Sheet 1 of 2)

PROM CODING CHART



SCHEMATIC NO. 1400082
 SCHEMATIC REF. NO. A12
 NEXT ASSEMBLY NO. 1400080
 FROM NO. / PART NO. 1400320-01

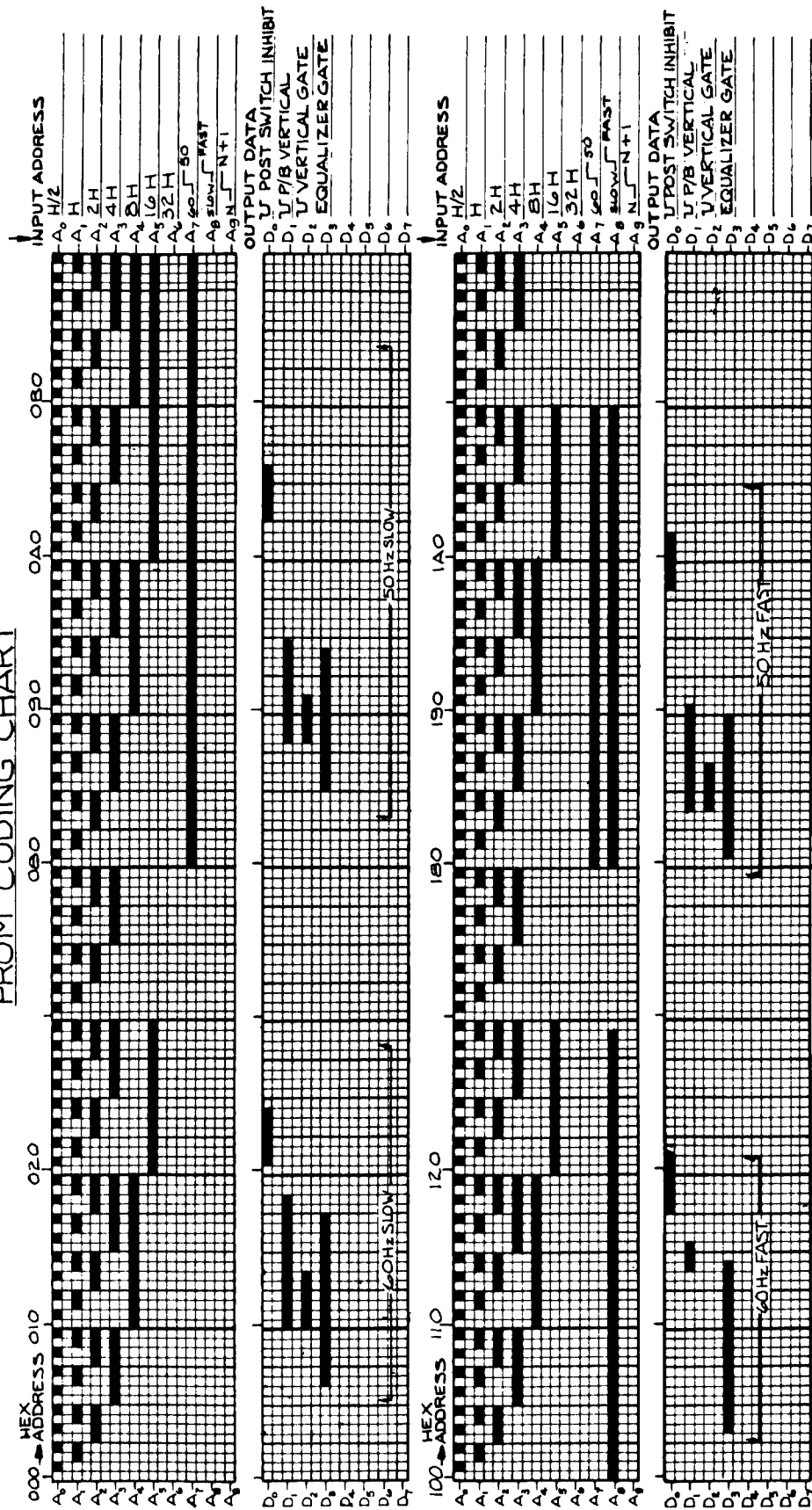
PROM CODING CHART



SCHEMATIC NO. 1400082
SCHEMATIC REF. NO. A33
NEXT ASSEMBLY NO. 1400080
PROM NO. / PART NO. 1400321-Q1

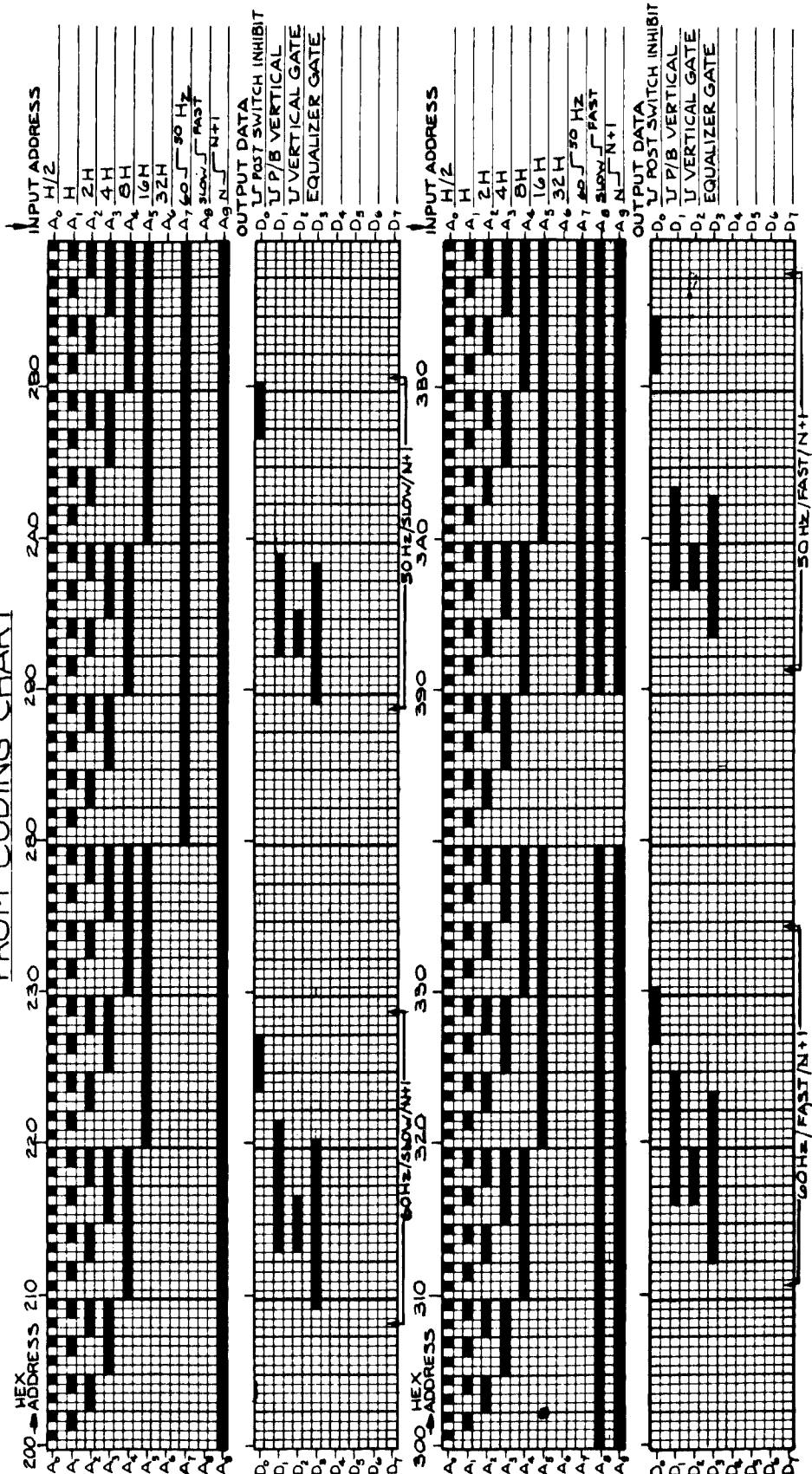
PROM No. 1400321. Playback Sync Vertical PROM, A33

PROM CODING CHART



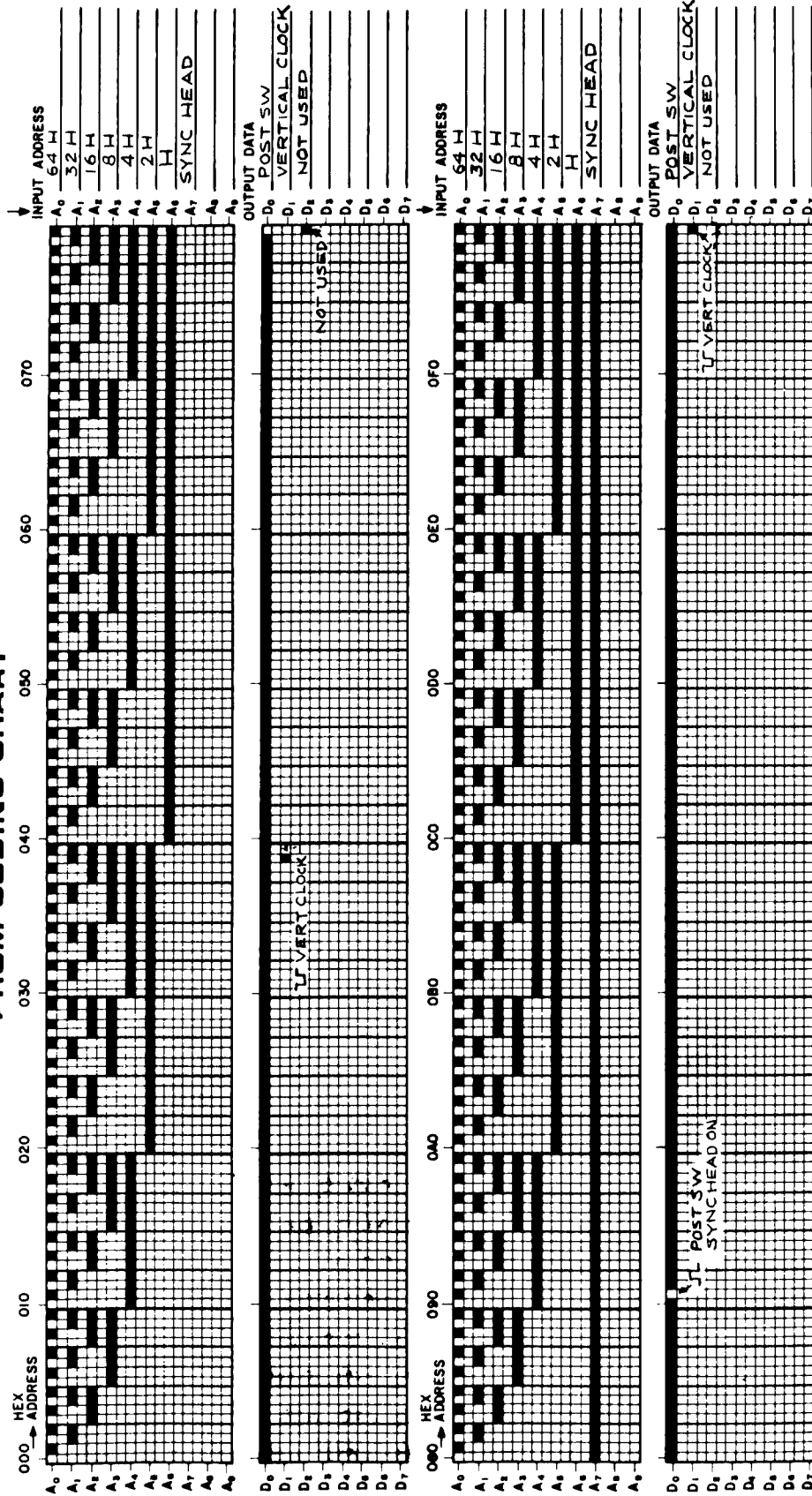
SCHEMATIC NO. 1400082
 SCHEMATIC REF NO. A34
 NEXT ASSEMBLY NO. 1400080
 PROM NO./PART NO. 1400322-01

PROM CODING CHART



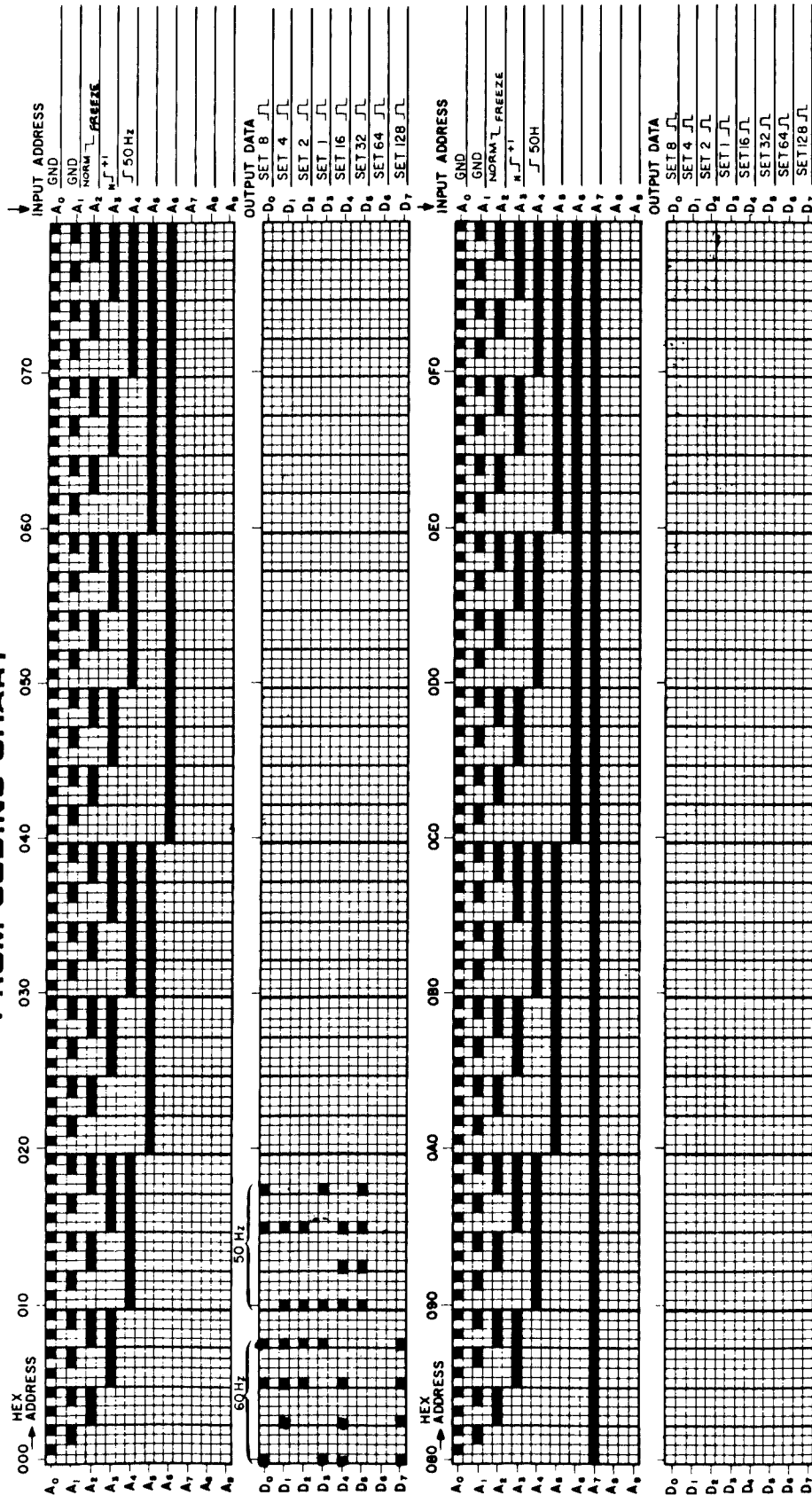
SCHEMATIC NO. 140008Z
 SCHEMATIC REF NO. A34
 NEXT ASSEMBLY NO. 1400080
 PROM NO. / PART NO. 1400322-01

PROM CODING CHART



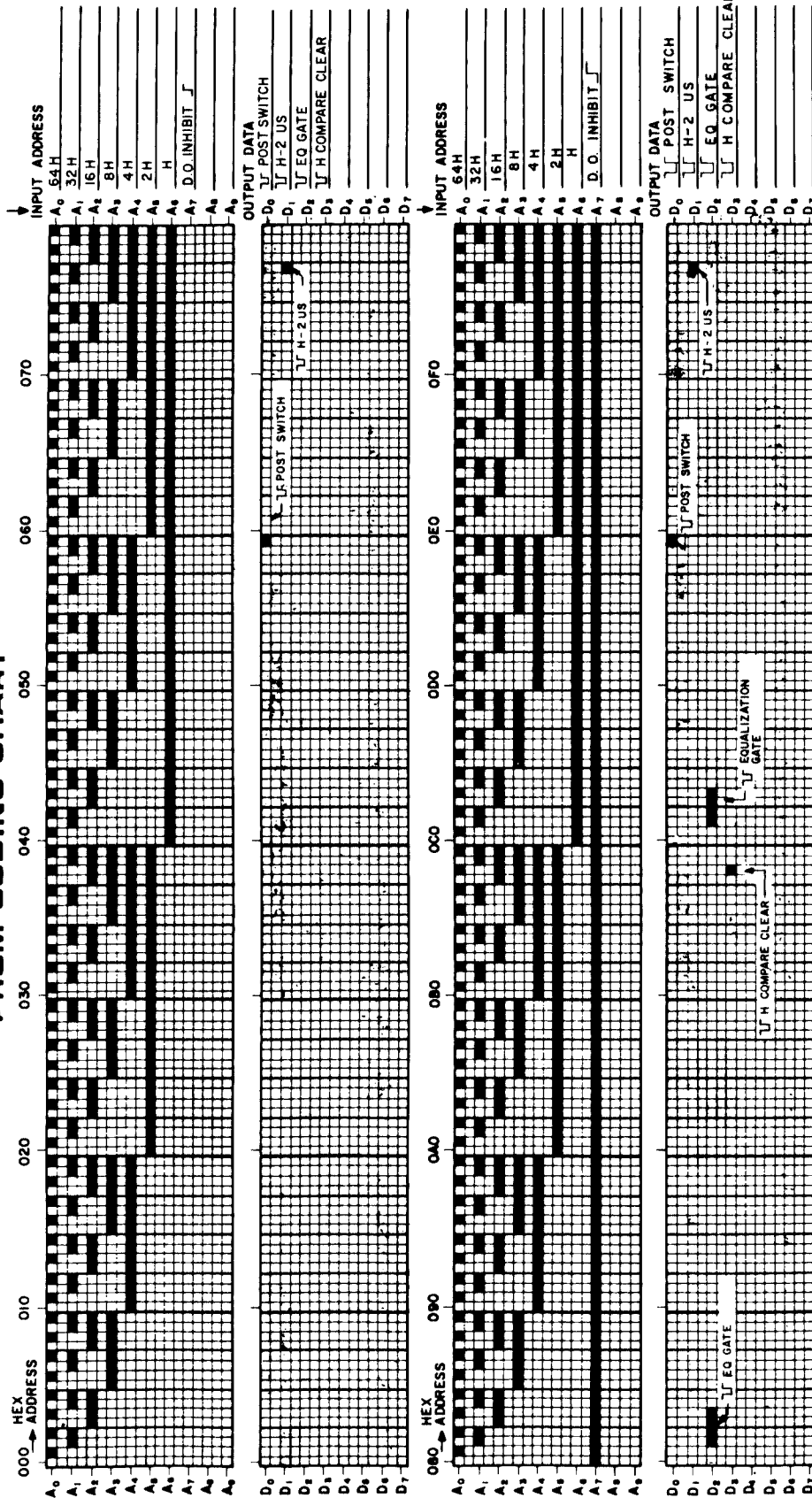
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 SCHEMATIC REF. NO. A 49
 NEXT ASSEMBLY NO. 1400080
 PROM NO. / PART NO. 1400323-01

PROM CODING CHART



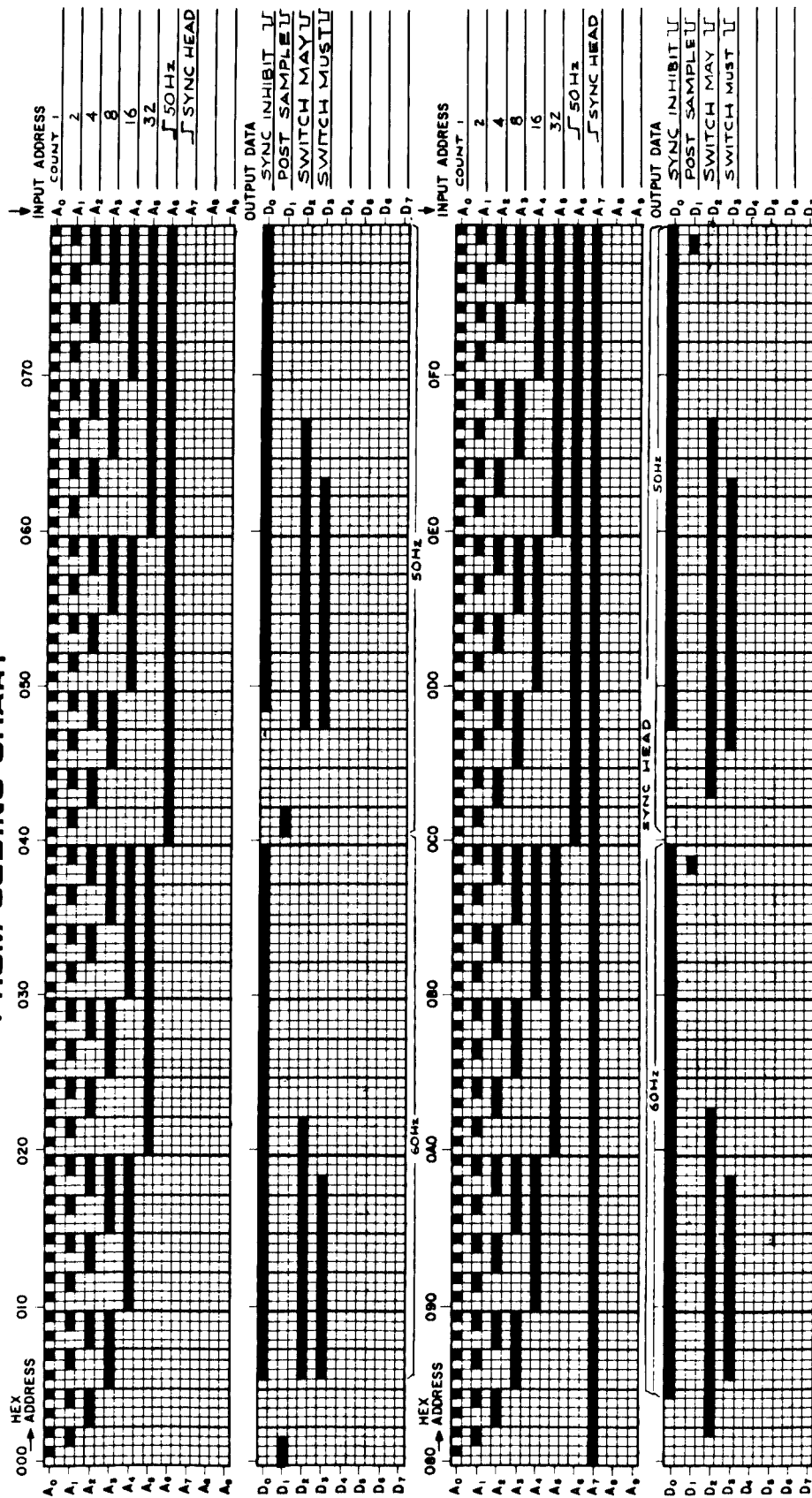
SCHEMATIC NO. 1400082
 SCHEMATIC REF. NO. A18
 NEXT ASSEMBLY NO. 1400080
 PROM. / PART NO. 1400324-01

PROM CODING CHART



SCHEMATIC NO. 1400082
 SCHEMATIC REF. NO. A 27
 NEXT ASSEMBLY NO. 1400080
 PROM NO./ PART NO. 1400325 - 01

PROM CODING CHART

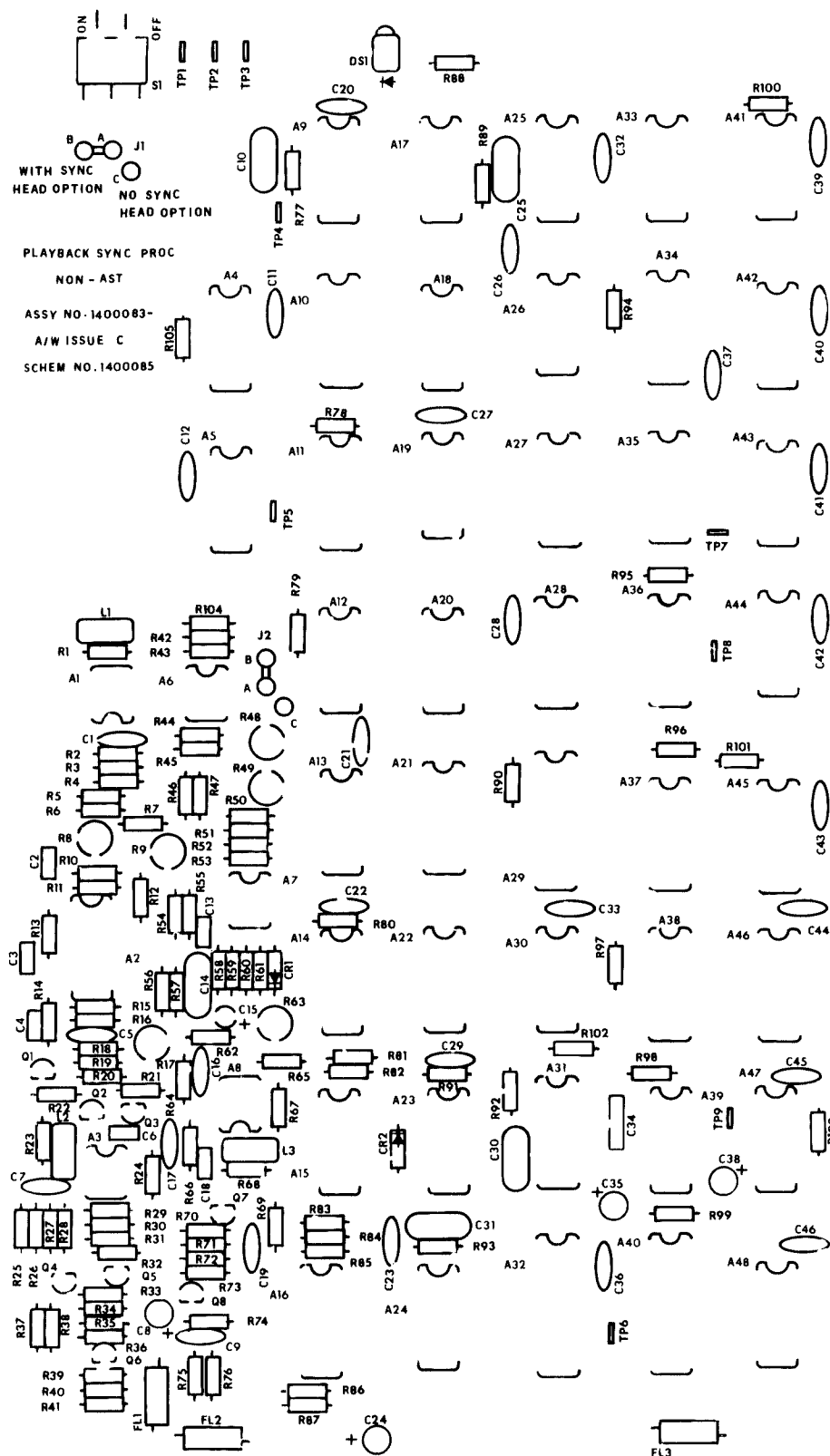


SCHEMATIC NO. 1400082
 SCHEMATIC REF. NO. A 37
 NEXT ASSEMBLY NO. 1400080
 PROM NO. / PART NO. 1400326-01

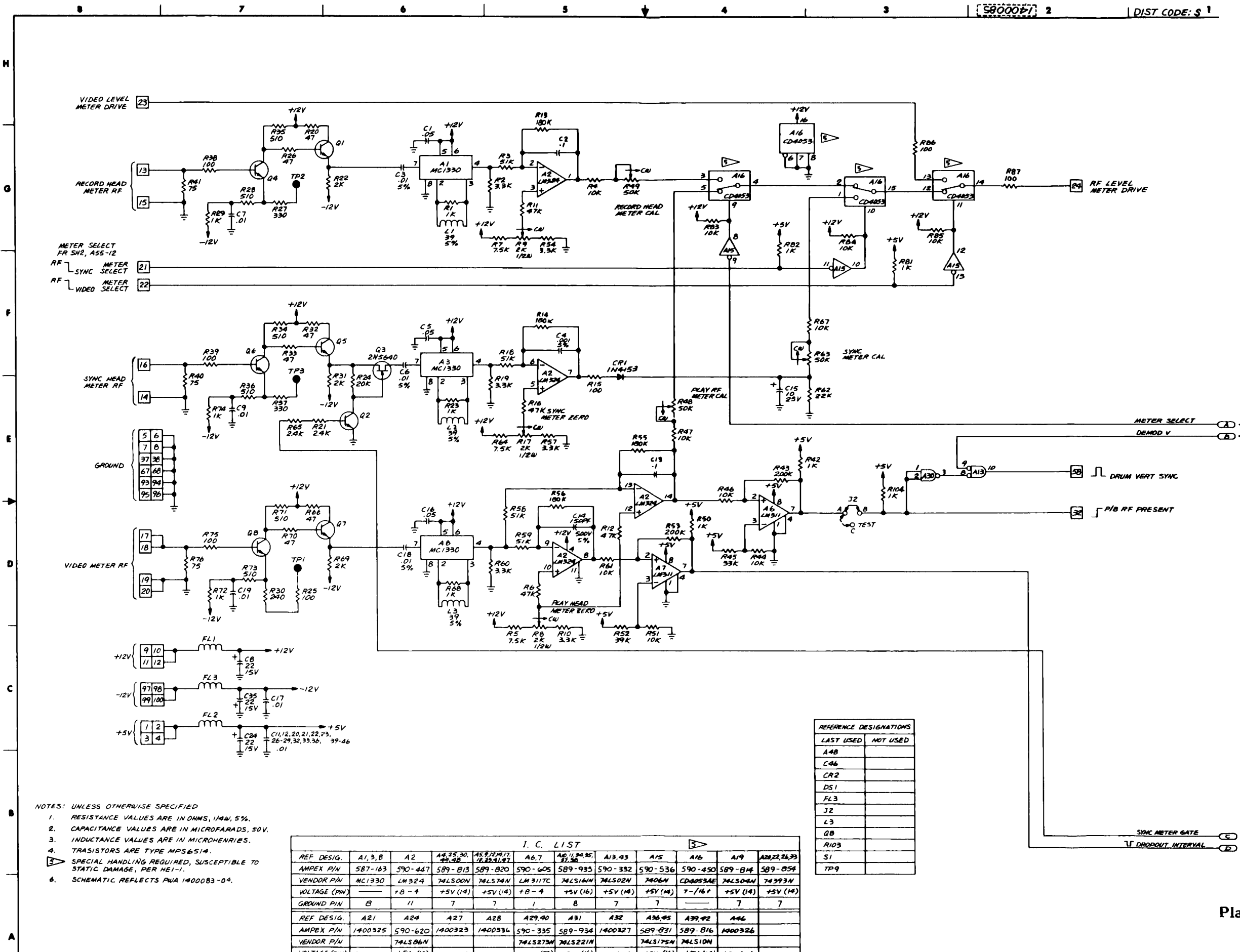
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-0	-01	-02	-03	-04	-05	-06	-07	-08	-09
1				0	01	02							
2													
3	1400085	SCHEMATIC		(-)	(A)			B	E				
4													
5	1400003-01	SHIELD		1	1			1					
6	1400004-01	HANDLE		1	1			1					
7	1400005-AH	LABEL		1	1			1					
8	1374188-01	INDUCTOR, FILTER	FL1-3	3	3			3					
9													
10													
11	1400336	PROM P/B VERT.	A28	01	01			01					
12	1400323	PROM, POST SWITCH	A27	02	02			02					
13	1400325	PROM, INPUT SYNC	A21	01	01			01					
14	1400326	PROM, TACH GATE	A46	03	04			04					
15	1400327	PROM, LOGIC	A32	05	05			05					
16													
17	581-620	LED, AMBER (DATA INPUT/REC-15CA)	DS1	1				1					
18	013-599	DIODE, SIGNAL (1N521)	CR1,2	2	2			2					
19													
20	014-780	TRANSISTOR, NPN, (MPS6514)	Q1,2,4,5,6,7,8	7	7			7					
21													
22	580-381	TRANSISTOR, (2N5640)	Q3	1				1					
23													
24	037-887	CAPACITOR, TANT., .47uF, 35V	C38	1	1			1					
25	037-812	CAPACITOR, TANT., 10uF, 25V	C15	1	1			1					
26	037-954	CAPACITOR, TANT., 22uF, 15V	C8,24,35	3	3			3					
27													
28	069-090	CAPACITOR, POLY., .001uF, 50V, 5%	C4	1	1			1					
29	069-100	CAPACITOR, POLY., .01uF, 50V, 5%	C3,6,18	3	3			3					
30	069-093	CAPACITOR, POLY., .056uF, 50V, 5%	C34	1	1			1					
31													
32	064-116	CAPACITOR, CER., .01uF, 50V	C7,9,11,12,17,19,20-23,26-29,32,33,36,39-46	25	25			25					
33	064-569	CAPACITOR, CER., .05uF, 50V	C1,5,16,37	4	4			4					
34													
35	064-062	CAPACITOR, MONO., .1uF, 50V	C2,13	2	2			2					
36													
37	034-213	CAPACITOR, MICA, 150pF, 500V, 5%	C14	1	1			1					

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400083	SHEET 2		F					
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER										
				-01	-02	-03	-04							
38	034-288	CAPACITOR, MICA, 390pF, 500V, 5%	C10,25,31	3			3	3						
39	034-177	CAPACITOR, MICA, 100pF, 500V, 5%	C30	1			1	1						
40														
41														
42	066-873	RESISTOR, C.F., 20K OHMS, 1/4W, 5%	R24	1			1	1						
43	066-938	47 OHMS,	R20,26,32,33,66,70	6	6		6	6						
44	076-045	75 OHMS,	R40,41,76	3	3		3	3						
45	066-812	100 OHMS,	R15,25,38,39,75,86,87	7	7		7	7						
46	066-662	200 OHMS,	R77,89,93	3	3		3	3						
47	066-859	240 OHMS,	R30	1	1		1	1						
48	066-838	330 OHMS,	R27,37	2	2		2	2						
49	066-664	510 OHMS,	R28,34-36,71,73	6	6		6	6						
50	066-665	1K OHMS,	R1,23,29,42,50,68,72,74,81,82,104	11	11		11	11						
51	066-826	2K OHMS,	R22,31,69	3	3		3	3						
52	066-720	3.3K OHMS,	R2,10,19,54,57,60,92	7	7		7	7						
53	066-668	4.7K OHMS,	R102,103	2	2		2	2						
54	066-711	7.5K OHMS,	R5,7,64	3	3		3	3						
55	066-830	10K OHMS,	R4,44,46,47,51,61,67,78-80,83-85,90,91,94-97,99-101,105	23	23		23	23						
56														
56	066-847	33K OHMS,	R45,98	2	2		2	2						
57	066-860	39K OHMS,	R52	1	1		1	1						
58	066-867	51K OHMS,	R3,18,58,59	4	4		4	4						
59	066-868	120K OHMS,	R13,14,55,56	4	4		4	-						
60	066-853	200K OHMS,	R43,53	2	2		2	2						
61	066-816	390 OHMS,	R88	1	1		1	1						
62	066-712	22K OHMS,	R62	1	1		1	1						
63	066-717	47K OHMS,	R6,11,12,16	4	4		4	4						
64	066-928	RESISTOR, C.F., 2.4K OHMS, 1/4W, 5%	R21,65	2	2		2	2						
65	076-011	RESISTOR, C.F., 180K OHMS, 1/4W, 5%	R13,14,55,56					4						
66	058-004	RESISTOR, VAR., 1K OHMS, 1/2W	R8,9,17	3	3		3	-						
67	058-001	RESISTOR, VAR., 50K OHMS	R48,49,63	3	3		3	3						
68	044-943	RESISTOR, VAR., 2K OHMS, 1/2W,	R8,9,17					3						
69	068-046	INDUCTOR, FIXED, 39uH, 5%	L1,2,3	3	3		3	3						
70														
71	589-813	INTEGRATED CIRCUIT, 74LS00N	A4,25,30,44,48	5	5		5	5						
72	590-332	74LS02N	A13,43	2	2		2	2						
73	589-814	74LS04N	A19	1	1		1	1						
74	590-536	7406N	A15	1	1		1	1						
75	589-816	74LS10N	A39,42	2	2		2	2						
76	589-820	74LS74N	A5,9,12,14,17,19,23,41,47	9	9		9	9						
77	590-620	74LS86N	A24	1	1		1	1						
78	589-933	74LS161N	A10,11,34,35,37,38	6	6		6	6						
79	589-831	74LS175N	A36,45	2	2		2	2						
80	589-934	74LS221N	A31	1	1		1	1						
81	590-335	INTEGRATED CIRCUIT, 74LS273N	A29,40	2	2		2	2						

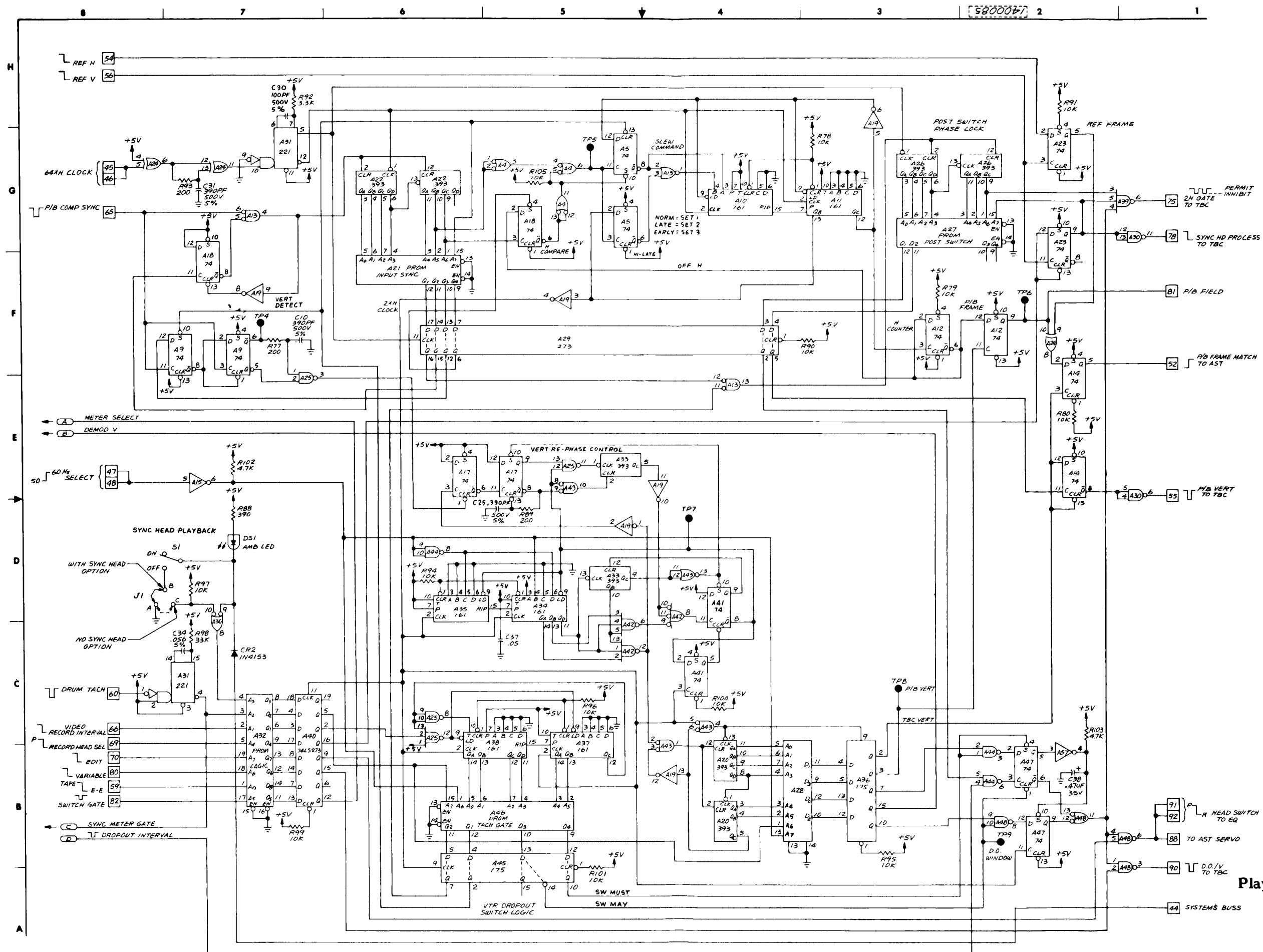
[illegible]



Assembly No. 1400083-04F. Playback Sync Processor PWA, No. 8 (Non-AST) (Option)



Schematic No. 1400085E.
Playback Sync Processor PWA,
No. 8 (Non-AST) (Option)
(Sheet 1 of 2)



Schematic No. 1400085E.
Playback Sync Processor PWA,
No. 8 (Non-AST) (Option)
(Sheet 2 of 2)

NON-AST P/B VERT		INPUTS										OUTPUTS										60 H _B . SYNC	
		DECIMAL ADDRESS	HEX ADDRESS	9	8	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0		
0064	040	0001000000																					
0065	041	0001000001																					
0066	042	0001000010																					
0067	043	0001000011																					
0068	044	0001000100																					
0069	045	0001000101																					
0070	046	0001000110																					
0071	047	0001000111																					
0072	048	0001001000																					
0073	049	0001001001																				B	
0074	04A	0001001010																				B	
0075	04B	0001001011																				B	
0076	04C	0001001100																				B	
0077	04D	0001001101																				B	
0078	04E	0001001110																				B	
0079	04F	0001001111																				A	
0080	050	0001010000																				A	
0081	051	0001010001																				E	
0082	052	0001010010																				E	
0083	053	0001010011																				E	
0084	054	0001010100																				E	
0085	055	0001010101																				C	
0086	056	0001010110																				D	
0087	057	0001010111																				D	
0088	058	0001011000																				D	
0089	059	0001011001																				D	
0090	05A	0001011010																				D	
0091	05B	0001011011																				D	
0092	05C	0001011100																				D	
0093	05D	0001011101																				D	
0094	05E	0001011110																				D	
0095	05F	0001011111																				D	
DRAWING NO. 1400336		REV. (—)										SMT. 3 OF 8											

NON-AST P/B VERT		INPUTS										OUTPUTS										COMMENTS	
		DECIMAL ADDRESS	HEX ADDRESS	9	8	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0		
0096	060	0001100000																			P		
0097	061	0001100001																			D		
0098	062	0001100010																			D		
0099	063	0001100011																					
0100	064	0001100100																					
0101	065	0001100101																					
0102	066	0001100110												0							7		
0103	067	0001100111												0							7		
0104	068	0001101000												0							7		
0105	069	0001101001												0							7		
0106	06A	0001101010												0							7		
0107	06B	0001101011												0							7		
0108	06C	0001101100												0							7		
0109	06D	0001101101												0							7		
0110	06E	0001101110																					
0111	06F	0001101111																					
0112	070	0001110000																					
0113	071	0001110001																					
0114	072	0001110010																					
0115	073	0001110011																					
0116	074	0001110100																					
0117	075	0001110101																					
0118	076	0001110110																					
0119	077	0001110111																					
0120	078	0001111000																					
0121	079	0001111001																					
0122	07A	0001111010																					
0123	07B	0001111011																					
0124	07C	0001111100																					
0125	07D	0001111101																					
0126	07E	0001111110																					
0127	07F	0001111111																					
DRAWING NO. 1400336		REV. (-)										SMT. 4 OF 8											

NON-AST P/B VERT		INPUTS										OUTPUTS										50 HZ, NON-SYNC	
		60Hz 1/200V	5VNC 2 Non-DM	16N	BN	YN	ZN	N	YN	POST-V INTRIG	PRE-V INTRIG	IBC V	DEMOD V										
DECIMAL ADDRESS	HEX ADDRESS	9	8	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	HEX DATA	COMMENTS		
0128	080	0	1	0	0	0	0	0	0	0	0												
0129	081	0	1	0	0	0	0	0	0	0	1												
0130	082	0	1	0	0	0	0	0	0	1	0												
0131	083	0	1	0	0	0	0	0	0	1	1												
0132	084	0	1	0	0	0	0	0	1	0	0												
0133	085	0	1	0	0	0	0	0	1	0	1												
0134	086	0	1	0	0	0	0	1	1	0													
0135	087	0	1	0	0	0	0	1	1	1													
0136	088	0	1	0	0	0	1	0	0	0													
0137	089	0	1	0	0	0	1	0	0	1		0							B				
0138	08A	0	1	0	0	0	1	0	1	0		0							B				
0139	08B	0	1	0	0	0	1	0	1	1		0							B				
0140	08C	0	1	0	0	0	1	1	0			0							B				
0141	08D	0	1	0	0	0	1	1	0	1		0							B				
0142	08E	0	1	0	0	0	1	1	1	0		0							B				
0143	08F	0	1	0	0	0	1	1	1	1		0	0						A				
0144	090	0	1	0	0	1	0	0	0			0	0						A				
0145	091	0	1	0	0	1	0	0	0	1		0	0						A				
0146	092	0	1	0	0	1	0	0	1	0		0	0						A				
0147	093	0	1	0	0	1	0	0	1	1		0							E				
0148	094	0	1	0	0	1	0	1	0			0	0						C				
0149	095	0	1	0	0	1	0	1	0	1		0							D				
0150	096	0	1	0	0	1	0	1	1	0		0							D				
0151	097	0	1	0	0	1	0	1	1	1		0	0						D				
0152	098	0	1	0	0	1	1	0	0			0							D				
0153	099	0	1	0	0	1	1	0	0	1		0	0						D				
0154	09A	0	1	0	0	1	1	0	1	0		0							D				
0155	09B	0	1	0	0	1	1	0	1	1		0	0						D				
0156	09C	0	1	0	0	1	1	1	0			0							D				
0157	09D	0	1	0	0	1	1	1	0	1		0							D				
0158	09E	0	1	0	0	1	1	1	1	0		0							D				
0159	09F	0	1	0	0	1	1	1	1	1													
DRAWING NO. 1400336		REV. (—)										SMT. 5 OF 8											

NON-AST P/B VERT		INPUTS										OUTPUTS											
DECIMAL ADDRESS	HEX ADDRESS	9	8	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	HEX DATA	COMMENTS		
0160	0A0	0	0	1	0	1	0	0	0	0	0												
0161	0A1	0	0	1	0	1	0	0	0	0	1												
0162	0A2	0	0	1	0	1	0	0	0	1	0												
0163	0A3	0	0	1	0	1	0	0	0	1	1												
0164	0A4	0	0	1	0	1	0	0	1	0	0												
0165	0A5	0	0	1	0	1	0	0	1	0	1												
0166	0A6	0	0	1	0	1	0	0	1	1	0												
0167	0A7	0	0	1	0	1	0	0	1	1	1												
0168	0A8	0	0	1	0	1	0	1	0	0	0												
0169	0A9	0	0	1	0	1	0	1	0	0	1												
0170	0AA	0	0	1	0	1	0	1	0	1	0												
0171	0AB	0	0	1	0	1	0	1	0	1	1												
0172	0AC	0	0	1	0	1	0	1	1	0	0												
0173	0AD	0	0	1	0	1	0	1	1	0	1												
0174	0AE	0	0	1	0	1	0	1	1	1	0												
0175	0AF	0	0	1	0	1	0	1	1	1	1												
0176	0B0	0	0	1	0	1	1	0	0	0	0												
0177	0B1	0	0	1	0	1	1	0	0	0	1												
0178	0B2	0	0	1	0	1	1	0	0	1	0												
0179	0B3	0	0	1	0	1	1	0	0	1	1												
0180	0B4	0	0	1	0	1	1	0	1	0	0												
0181	0B5	0	0	1	0	1	1	0	1	0	1												
0182	0B6	0	0	1	0	1	1	0	1	1	0												
0183	0B7	0	0	1	0	1	1	0	1	1	1												
0184	0B8	0	0	1	0	1	1	1	0	0	0												
0185	0B9	0	0	1	0	1	1	1	0	0	1												
0186	0BA	0	0	1	0	1	1	1	0	1	0												
0187	0BB	0	0	1	0	1	1	1	0	1	1												
0188	0BC	0	0	1	0	1	1	1	1	0	0												
0189	0BD	0	0	1	0	1	1	1	1	0	1												
0190	0BE	0	0	1	0	1	1	1	1	1	0												
0191	0BF	0	0	1	0	1	1	1	1	1	1												
DRAWING NO. 1400336		REV. (—)										SMT. 6 OF 8											

PROM No. 1400336. Playback Sync Vertical PROM, A28 (Sheet 5 of 8 and Sheet 6 of 8)

NON-AST P/B VERT		INPUTS										OUTPUTS										50 Hz SYNC	
DECIMAL ADDRESS	HEX ADDRESS	9	8	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	HEX DATA	COMMENTS		
0192	0C0	0	0	1	1	0	0	0	0	0	0												
0193	0C1	0	0	1	1	0	0	0	0	0	1												
0194	0C2	0	0	1	1	0	0	0	0	1	0												
0195	0C3	0	0	1	1	0	0	0	0	1	1												
0196	0C4	0	0	1	1	0	0	0	1	0	0												
0197	0C5	0	0	1	1	0	0	0	1	0	1												
0198	0C6	0	0	1	1	0	0	0	1	1	0												
0199	0C7	0	0	1	1	0	0	0	1	1	1												
0200	0C8	0	0	1	1	0	0	1	0	0	0												
0201	0C9	0	0	1	1	0	0	1	0	0	1	0							B				
0202	0CA	0	0	1	1	0	0	1	0	1	0	0							B				
0203	0CB	0	0	1	1	0	0	1	0	1	1	0							B				
0204	0CC	0	0	1	1	0	0	1	0	1	0	0							B				
0205	0CD	0	0	1	1	0	0	1	0	1	1	0							B				
0206	0CE	0	0	1	1	0	0	1	0	1	1	0							B				
0207	0CF	0	0	1	1	0	0	1	0	1	1	1	0						C	A			
0208	0D0	0	0	1	1	0	1	0	0	0	0								0	A			
0209	0D1	0	0	1	1	0	1	0	0	0	1								0	A			
0210	0D2	0	0	1	1	0	1	0	0	1	0								0	A			
0211	0D3	0	0	1	1	0	1	0	0	1	1	0							0	E			
0212	0D4	0	0	1	1	0	1	0	1	0	0								0	C			
0213	0D5	0	0	1	1	0	1	0	1	0	1								0	D			
0214	0D6	0	0	1	1	0	1	0	1	0	1	0							0	D			
0215	0D7	0	0	1	1	0	1	0	1	1	1								0	D			
0216	0D8	0	0	1	1	0	1	1	0	0	0								0	D			
0217	0D9	0	0	1	1	0	1	1	0	0	1								0	D			
0218	0DA	0	0	1	1	0	1	1	0	1	0								0	D			
0219	0DB	0	0	1	1	0	1	1	0	1	1								0	D			
0220	0DC	0	0	1	1	0	1	1	1	0	0								0	D			
0221	0DD	0	0	1	1	0	1	1	1	0	1								0	D			
0222	0DE	0	0	1	1	0	1	1	1	1	0								0	D			
0223	0DF	0	0	1	1	0	1	1	1	1	1												
DRAWING NO. 1400336		REV. (—)																				SHT. 7 OF 8	

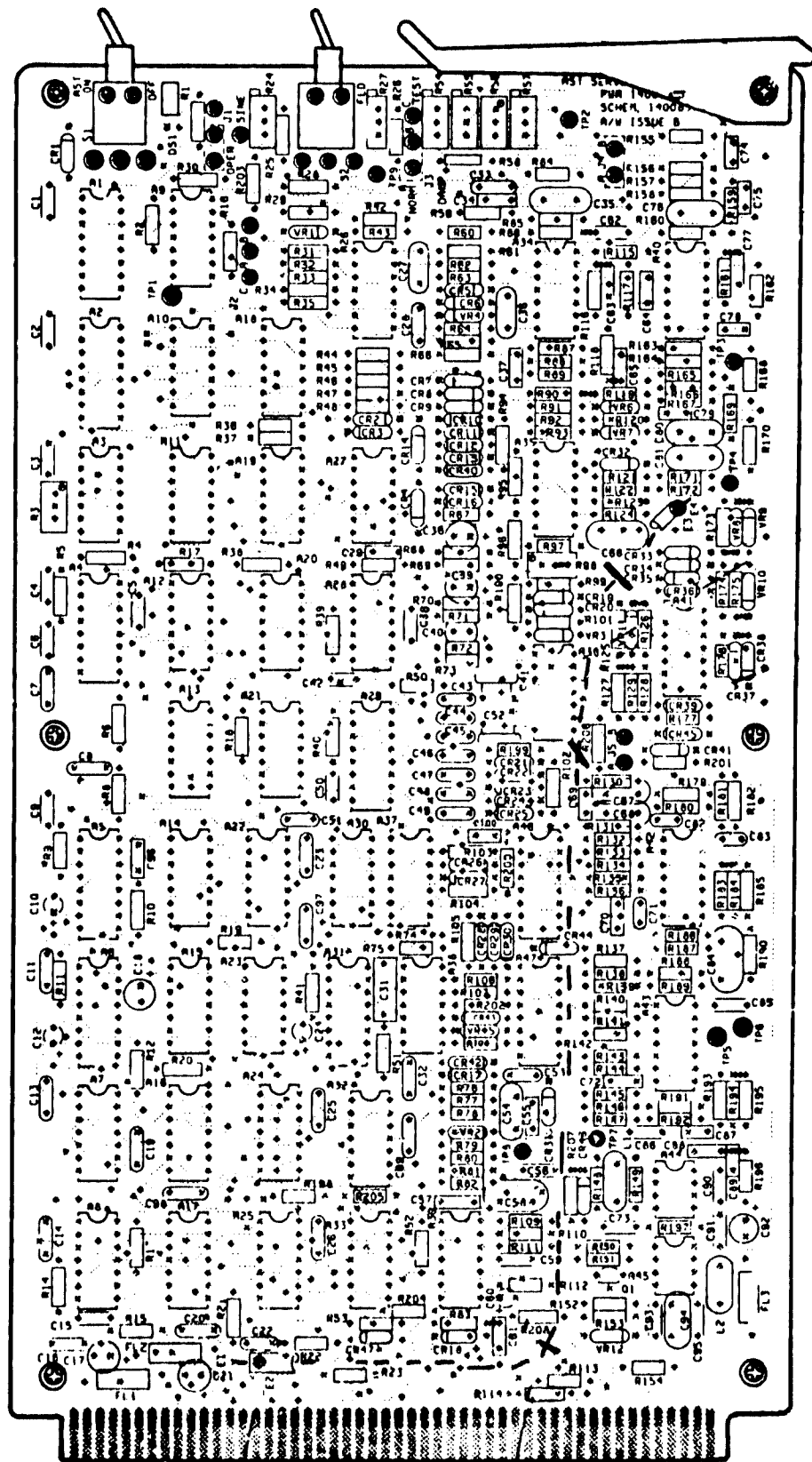
NON-AST P/B VERT		INPUTS										OUTPUTS										COMMENTS	
		DECIMAL ADDRESS	HEX ADDRESS	9	8	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0		
0224	0E0	0011100000																					
0225	0E1	0011100001																					
0226	0E2	0011100010																					
0227	0E3	0011100011																					
0228	0E4	0011100100																					
0229	0E5	0011100101																					
0230	0E6	0011100110																					
0231	0E7	0011100111																					
0232	0E8	0011101000																					
0233	0E9	0011101001																				7	
0234	0EA	0011101010																				7	
0235	0EB	0011101011																				7	
0236	0EC	0011101100																				7	
0237	0ED	0011101101																				7	
0238	0EE	0011101110																				7	
0239	0EF	0011101111																				7	
0240	0F0	0011110000																				7	
0241	0F1	0011110001																					
0242	0F2	0011110010																					
0243	0F3	0011110011																					
0244	0F4	0011110100																					
0245	0F5	0011110101																					
0246	0F6	0011110110																					
0247	0F7	0011110111																					
0248	0F8	0011111000																					
0249	0F9	0011111001																					
0250	0FA	0011111010																					
0251	0FB	0011111011																					
0252	0FC	0011111100																					
0253	0FD	0011111101																					
0254	0FE	0011111110																					
0255	0FF	0011111111																					
DRAWING NO. 1400336		REV. (—)																				SHT. 8 OF 8	

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01									
1													
2													
3	1400837	SCHEMATIC	(-)										
4													
5													
6													
7	1400003-01	SHIELD	1										
8	1400004-01	HANDLE	1										
9	1400005-68	LABEL	1										
10													
11													
12													
13	064-116	CAPACITOR CER., .01uF, 50V, ±10%	C1-4,7-9,11,13-16,19 20,23,25,26,28,30,32 33,59,62,63,73,77,90 91,93,95,97,98,99	33									
14													
15													
16	064-152	CAPACITOR CER., .001uF, 50V, ±10%	C56	1									
17													
18													
19	034-177	CAPACITOR MICA, 100pF, 500V, ±5%	C27,35,36,54,76,94	6									
20	034-319	CAPACITOR MICA, 270pF, 500V, ±5%	C68,80	2									
21	034-931	CAPACITOR MICA, 560pF, 500V, ±5%	C67,81	2									
22	034-934	CAPACITOR MICA, 360pF, 500V, ±5%	C58	1									
23													
24													
25	064-062	CAPACITOR MONO., .1uF, 50V, ±20%	C34,37	2									
26	064-282	CAPACITOR MONO., .68uF, 50V, ±10%	C31	1									
27	064-307	CAPACITOR MONO., .22uF, 50V, ±20%	C61	1									
28	064-329	CAPACITOR MONO., .47uF, 50V, ±20%	C29,96	2									
29	064-314	CAPACITOR MONO., 1.0uF, 50V, ±20%	C22,42-51,53,55	13									
30													
31													
32													
33													
34													
35													
36													
37													

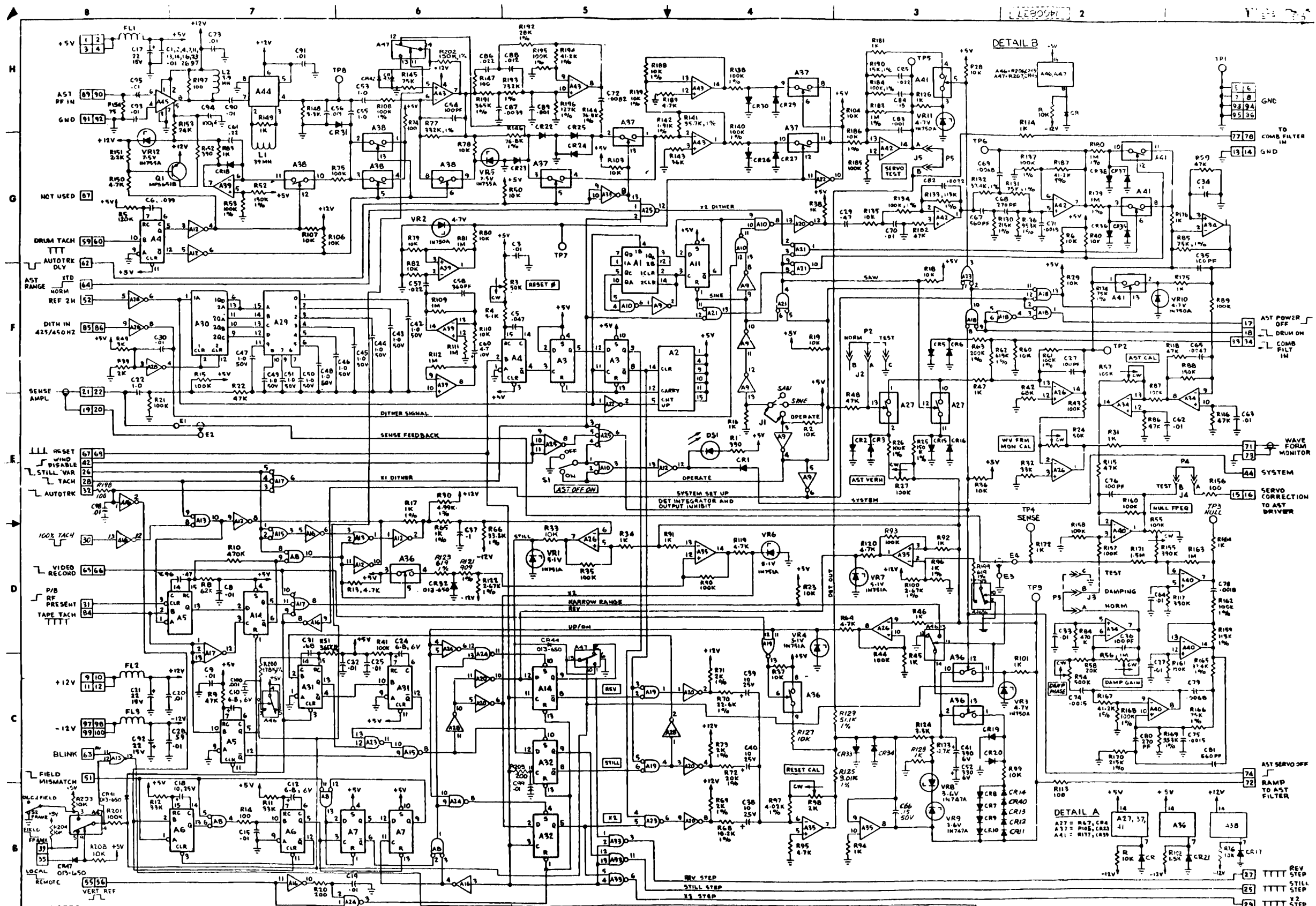
AMPEX		Ampex Corporation REDWOOD CITY CALIFORNIA		CODE IDENT NO 92732	LIST OF MATERIALS	LM-1400835 SHEET 2	REV —							
ITEM NO	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
					-01									
38	069-090		CAPACITOR POLY., .001uF, 50V, ±5% C83,89,100	3										
39	069-091		.039uF, 50V, ±5% C6	1										
40	069-092		.047uF, 50V, ±5% C5	1										
41	069-097		.022uF, 50V, ±5% C57,85,86	3										
42	069-099		.0082uF, 50V, ±5% C72	1										
43	069-100		.01uF, 50V, ±5% C64,70	2										
44	069-101		.012uF, 50V, ±5% C88	1										
45	069-103		.0047uF, 50V, ±5% C65	1										
46	069-105		.0068uF, 50V, ±5% C69,79	2										
47	069-108		.0039uF, 50V, ±5% C87	1										
48	069-109		.0022uF, 50V, ±5% C82	1										
49	069-110		.0018uF, 50V, ±5% C78	1										
50	069-111		.0015uF, 50V, ±5% C71,74,75	3										
51	069-115		CAPACITOR POLY., .15uF, 50V, ±5% C66,84	2										
52														
53														
54	037-812		CAPACITOR TANT., 10uF, 25V, ±20% C18,38,39,40	4										
55	037-954		CAPACITOR TANT., 22uF, 15V, ±20% C17,21,92	3										
56	037-962		CAPACITOR TANT., 4.7uF, 10V, ±20% C60	1										
57	037-968		CAPACITOR TANT., 6.8uF, 6V, ±20% C10,12,24	3										
58	037-973		CAPACITOR TANT., 330uF, 6V, ±20% C41,52	2										
59														
60														
61														
62														
63	013-312		DIODE ZENER, 7.5V, IN755A VR5,12	2										
64	013-332		DIODE ZENER, 4.7V, IN750A VR2,3,10,11	4										
65	013-358		DIODE ZENER, 5.1V, IN751A VR1,4,6,7	4										
66	013-431		DIODE ZENER, 3.6V, IN747A VR8,9	2										
67	013-599		DIODE, SIGNAL, 1N4537 CR1-31,33-40,42,43,45,46	43										
68	013-650		DIODE, GERMANIUM, 1N270 CR32,41,44,47	4										
69														
70														
71														
72	051-770		INDUCTOR, FILTER FI.1-3	3										
73	068-046		INDUCTOR, FIXED, 39uH, 5% L1	1										
74	068-132		INDUCTOR, FIXED, 3.9uH, 5% L2	1										
75														
76														
77														
78	590-536		INTEGRATED CIRCUIT, 7406N A12,20	2										
79	590-590		7445N A29	1										
80	590-614		MC1330A A44	1										
81	590-545		MC1350 A45	1										
82	580-816		INTEGRATED CIRCUIT, 74LS10N A17,25	2										

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739		LIST OF MATERIALS		LM- 1400835 SHEET 3		REV —					
ITEM NO	PART NUMBER			DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
						-01									
83	590-820			INTEGRATED CIRCUIT, 74LS74N	A3,7,11,14,32	5									
84	590-447			LM324	A26,34,35,39,40,42,43	7									
85	589-813			74LS00N	A10,15,23,24,33	5									
86	589-814			74LS04N	A9,16,22,28	4									
87	590-329			74LS123N	A4-6,31	4									
88	589-832			74LS193N	A2	1									
89	590-618			CD4066	A27,36,37,38, 41	5									
90	590-450			CD4053	A46,47	2									
91	590-332			74LS02N	A8,13,18,19,21	5									
92	590-451			74390	A1	1									
93	589-854			INTEGRATED CIRCUIT, 74393	A30	1									
94															
95															
96															
97	066-652			RESISTOR C.F., 470K, 1/4W, 5%	R10,84	2									
98	066-662			200 OHM, 1/4W, 5%	R20,205	2									
99	066-655			1K, 1/4W, 5%	R16,31,34,38,45-47,83 91,92,95,101,114, 126,128,149,164,172, 175,176,181	21									
100															
101	066-667			3K, 1/4W, 5%	R49	1									
102	066-668			4.7K, 1/4W, 5%	R13,64,95,119,120,150 173,189	8									
103	066-673			1 MEG, 1/4W, 5%	R81,109,111,112,163	5									
104	066-689			2.2K, 1/4W, 5%	R151	1									
105	066-717			47K, 1/4W, 5%	R9,22,48,59,86,115, 116,118,182	9									
106	066-720			3.3K, 1/4W, 5%	R124,148	2									
107	066-812			100 OHM, 1/4W, 5%	R14,74,113,147,156, 197,198	7									
108	066-816			390 OHM, 1/4W, 5%	R1,152	2									
109	066-824			1.5K, 1/4W, 5%	R102	1									
110	066-826			2K, 1/4W, 5%	R39	1									
111	066-830			10K, 1/4W, 5%	R2,6,18,19,23,28,29, 31,36,37,40,50,60,67, 76,78-80,82,99,103- 107,110,127,135,177, 203,204,208,206,207	34									
112															
113															
114	066-842			5.1K, 1/4W, 5%	R4	1									
115	066-845			24K, 1/4W, 5%	R153	1									
116	066-847			33K, 1/4W, 5%	11,12,32	3									
117	066-849			100K, 1/4W, 5%	R15,21,35,41,43,44,75 87,89,90,93,157,158, 160,161,165,201	17									
118															
119	066-852			62K, 1/4W, 5%	R6	1									
120	066-868			120K, 1/4W, 5%	R5	1									
121	066-873			20K, 1/4W, 5%	R58	1									
122	066-958			RESISTOR C.F., 75K, 1/4W, 5%	R145	1									
123															
124															
125															
126															
127															

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 927C9	LIST OF MATERIALS	LM- 1400835 SHEET 4	REV —									
ITEM NO	PART NUMBER		DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER											
					-01											
128	066-974		RESISTOR C.F., 150K, 1/4W, 5% R88		1											
129	076-009		68K, 1/4W, 5% R42		1											
130	076-012		330K, 1/4W, 5% R117		1											
131	076-014		1.5MEG., 1/4W, 5% R171		1											
132	076-045		75 OHM, 1/4W, 5% R154		1											
133	076-046		36K, 1/4W, 5% R143		1											
134	076-053		RESISTOR C.F., 390K, 1/4W, 5% R155		1											
135																
136																
137																
138																
139	062-601		RESISTOR, M.F., 100K, 1/8W, 1% R26, 53, 61, 108, 134, 137, 139, 140, 162, 168, 184, 195		12											
140	062-624		RESISTOR M.F., 1K, 1/8W, 1% R17, 65, 96		3											
141	062-639		3.01K, 1/8W, 1% R125		1											
142	062-643		2K, 1/8W, 1% R69, 71, 73		3											
143	062-693		20K, 1/8W, 1% R72		1											
144	062-694		15K, 1/8W, 1% R190		1											
145	062-796		1MEG, 1/8W, 1% R179, 180, 183		3											
146																
147	062-910		619 OHM, 1/8W, 1% R123, 199		2											
148	062-962		909 OHM, 1/8W, 1% R121		1											
149	062-949		2.67K, 1/8W, 1% R100, 122		2											
150	062-968		4.99K, 1/8W, 1% R30		1											
151	062-983		10K, 1/8W, 1% R139, 186, 188		3											
152	062-997		18.2K, 1/8W, 1% R68		1											
153	066-001		22.6K, 1/8W, 1% R70		1											
154	066-008		28K, 1/8W, 1% R192		1											
155	066-039		33.2K, 1/8W, 1% R66		1											
156	066-010		37.4K, 1/8W, 1% R132, 165		2											
157	066-015		51.1K, 1/8W, 1% R129		1											
158	066-017		75K, 1/8W, 1% R85, 131, 166, 174		4											
159	066-021		178K, 1/8W, 1% R200		1											
160	066-022		200K, 1/8W, 1% R63		1											
161	066-028		332K, 1/8W, 1% R77		1											
162	066-030		365K, 1/8W, 1% R51, 191		2											
163	066-036		619K, 1/8W, 1% R62		1											
164	066-209		76.8K, 1/8W, 1% R144, 146		2											
165	066-454		1.91K, 1/8W, 1% R142		1											
166	066-468		150K, 1/8W, 1% R25, 52, 202		3											
167																
168																
169	066-714		35.7K, 1/8W, 1% R141		1											
170	066-875		RESISTOR M.F., 127K, 1/8W, 1% R196		1											
171	062-962		RESISTOR, M.F., 4.02K, 1/8W, 1% R97		1											
172																



Assembly No. 1400835-01—. AST Servo True Frame PWA







NOTES: UNLESS OTHERWISE SPECIFIED -
 1. RESISTORS IN OHMS, 1/4 W, 5%
 2. 1% RESISTORS ARE 1/8 W
 3. CAPACITORS IN MICROFARADS
 4. DIODES ARE (PIN) D15-599
 5. SCHEMATIC REFLECTS PWA (400835 - 01)
 6. STATIC SENSITIVE SPECIAL HANDLING REQUIRED PER WEI-1

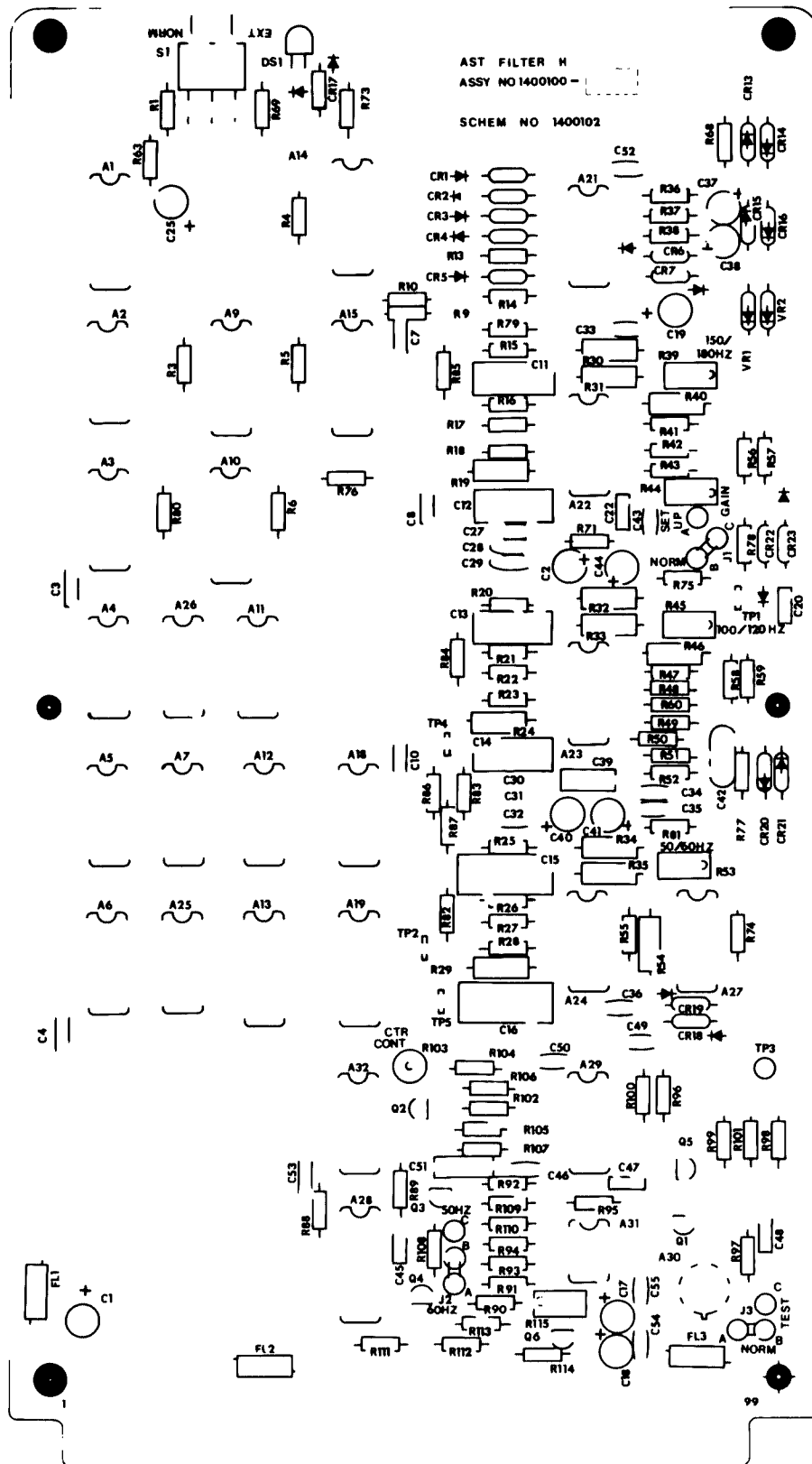
IC LIST										REFERENCE DESIGNATIONS	
REF DESIG	A10, 18, 29, 35, 37, 38, 39	A3, 14, 21, 28	A17, 25	A3, 7, 11, 14, 15	A2	A30	A44	A27, 36, 37, 38, 41	A47	LAST USED	NOT USED
AMPEX P/N	580-813	587-814	589-816	590-820	587-832	589-834	590-84	590-61A	A47		
VENDOR P/N	74LS00M	74LS04M	74LS04M	74LS04M	74LS04M	74LS04M	74LS04M	74LS04M	CD4066		
VOLTAGE (PIN)	+5V (14)	+5V (14)	+5V (14)	+5V (14)	+5V (14)	+5V (14)	+5V (14)	+5V (14)	SEE DETAIL A		
GROUND (PIN)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)			
REF DESIG	A8, 13, 10, 11, 31	A13, 20	A29	A4, 5, 6, 31	A1	A2, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47	A45	A46, 47			
AMPEX P/N	590-332	590-536	590-590	590-829	590-830	590-847	590-545	590-880			
VENDOR P/N	74LS02M	7406M	7406M	74LS123M	74LS00	LM334	MC1550	CD4053			
VOLTAGE (PIN)	+5V (14)	+5V (14)	+5V (14)	+5V (14)	+5V (14)	+12V (14), (15V)	+12V (14)	SEE DETAIL B			
GROUND (PIN)	(7)	(7)	(8)	(8)	(8)	(1, 7)	(1, 7)				

Schematic No. 1400837—
 AST Servo PWA w/True Frame,
 No. 9 (Accessory)

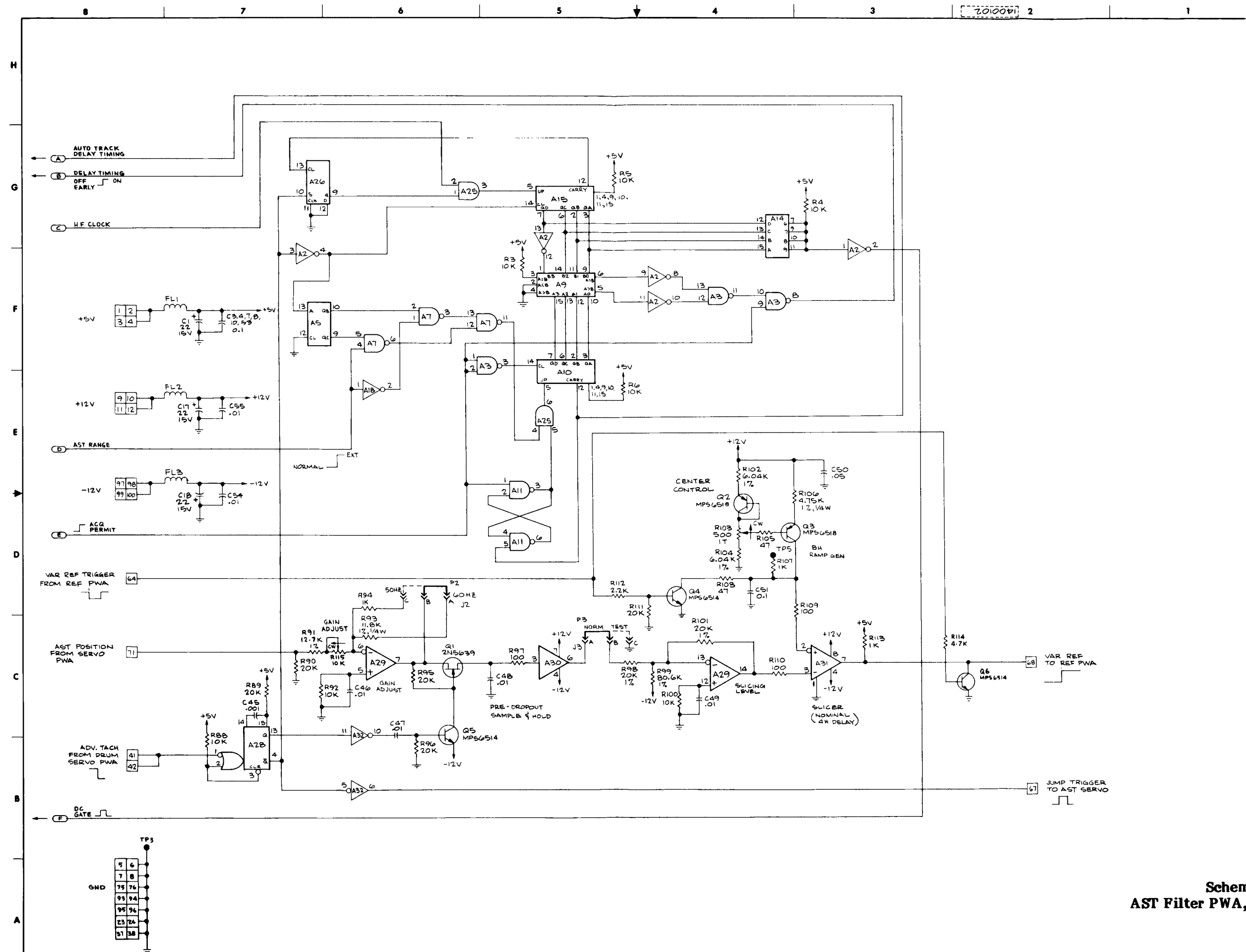
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER					
				-01	-02	-03	-04	-05	-06
1				01	02	04	04	05	
2	1400102	SCHEMATIC		A	B	C	D	F	
3	1400005-AK	LABEL		1	1	1		1	
4	1400004-01	HANDLE		1	1	1	1	1	
5	1400003-01	SHIELD		1	1	1	1	1	
6	103307-02	SPACER	REF: DS1	2	-	-	-	-	
7	066-665	RES. C.F. 1K, 1/4W, 5%	R15,20,25,58,82,86,94,107,113				9	9	9
8	1374188-01	INDUCTOR FILTER	FL1,2,3	3	3	3	3	3	3
9	013-599	DIODE, SIGNAL, 1N4531	CR1-7,13-23	18	18	18	18	18	18
10	013-166	DIODE, ZENER, 1N746A	VR1,2	2	2	2	2	2	2
11	581-522	DIODE, LED, RED	DS1		-	-	-	-	
12	037-952	CAPACITOR, TANT, 3.3uF, 15V, 20%	C19		1	1	1	1	1
13	037-812	10uF, 25V, 20%	C2,37,38,41,44,40	6	6	6	6	6	6
14	037-954	22uF, 15V, 20%	C1,17,18	3	3	3	3	3	3
15	037-963	33uF, 10V, 20%	C25		1	1	1	1	1
16									
17	069-090	POLYESTER, .001uF, 50V, 5%	C45		1	1	1	1	1
18	069-100	.01uF, 50V, 5%	C22,47,48	3	3	3	3	3	3
19	069-102	.015uF, 50V, 5%	C20		1	1	1	1	1
20									
21	069-113	POLYESTER, .1uF, 50V, 5%	C51		1	1	1	1	1
22	069-119	POLYCARBON, .1uF, 50V, 3%	C11,12	2	2	2	2	2	2
23	069-118	POLYCARBON, .15uF, 50V, 3%	C13,14	2	2	2	2	2	2
24	069-117	POLYCARBON, .27uF, 50V, 3%	C15,16	2	2	2	2	2	2
25	069-112	POLYESTER, .082uF, 50V, 5%	C39		1	1	1	1	1
26	064-062	MONO, .1uF, 100V, -20% ^{+80%}	C3,4,7,8,10,53	6	6	6	6	6	6
27	064-116	CERAMIC, .01uF, 50V, +80%/-20%	C27-36,43,46,49,52,54,55	16	16	16	16	16	16
28	034-934	MICA, 360pF, 500V, 5%	C42	1	1	1	1	1	1
29	064-569	CAPACITOR, CERAMIC, .05uF, 25V, +80%/-20%	C50	1	1	1	1	1	1
30	581-620	DIODE, LED, AMBER	DS1		1	1	1	1	1
31	066-938	RESISTOR, C.F., 47 OHM, 1/4W, 5%	R105,108	2	2	2	2	2	2
32	066-812	100 OHM	R59,97,109,110	4	4	4	4	4	4
33	066-814	270 OHM	R69	1	1	1	1	1	1
34	066-816	390 OHM	R73	1	1	1	1	1	1
35	066-665	1K OHM	R15,20,25,58,82,86,107,113	8	8	8	-	-	-
36	066-689	2.2K OHM	R112	1	1	1	1	1	1
37	066-666	RESISTOR, C.F., 2.7K OHM, 1/4W, 5%	R60	1	1	1	1	1	1

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400100	REV R				
						SHEET 2					
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER							
				-01	-02	-03	-04	-05	-06		
38	066-668	RESISTOR, C.F., 4.7K OHM, 1/4W, 5%	R41,47,55,71	4	1	-	-	-	-		
39	066-830	RESISTOR, C.F., 10K OHM, 1/4W, 5%	R1,3-6,9,10,13,14,17,18,22,23,27,28,68,76,80,83,84,85,87,88,92,100	25	25	25	25	25	25		
40	066-752	RESISTOR, M.F., 11.8K, 1/4W, 1%	R93	1	1	1	1	1	1		
41	042-331	M.F., 16.9K 1%	R94	1	1	1	-	-	-		
42	066-873	C.F., 20K OHM 5%	R89,90,95,96,111	5	5	5	5	5	5		
43	066-717	47K OHM	R63	1	1	1	1	1	1		
44	066-849	100K OHM	R43,56,57	3	3	3	3	3	3		
45	066-850	240K OHM	R48,49	2	2	2	2	2	2		
46	066-652	C.F., 470K, 1/4W, 5%	R42	1	1	1	1	1	1		
47	062-693	M.F., 20K OHMS, 1/8W, 1%	R52,98,101	-	3	3	3	3	3		
48	059-579	W.W., 7.87K OHM, 1/8W, 1%	R30,32	2	2	2	2	2	2		
49	059-580	W.W., 8.87K OHM	R19,24,34	3	3	3	3	3	3		
50	059-581	W.W., 9.76K OHM	R29,31,33,35,40,46,54	7	7	7	7	7	7		
51	062-913	M.F., 681 OHM	R75,79,81	3	3	3	3	3	3		
52	066-160	6.04K OHM	R102,104	2	2	2	2	2	2		
53	062-693	20K OHM	R52,91,98,101	4	-	-	-	-	-		
54	062-800	21.5K OHM	R74,77,78	3	3	3	3	3	3		
55	066-806	43.2K OHM	R51	1	1	1	1	1	1		
56	066-389	90.9K OHM	R50	1	1	1	1	1	1		
57	076-182	887K OHM	R16,21,36,37	4	4	4	4	4	4		
58	076-183	M.F., 976K OHM, 1/8W, 1%	R26,38	2	2	2	2	2	2		
59	044-927	VARIABLE, 500 OHM, 1/2W	R103	1	1	1	1	1	1		
60	058-651	2K OHM, 1/2W	R39,45,53	3	3	3	3	3	3		
61	058-565	10K OHM, 1/2W	R115			1	1	1	1		
62	058-873	RESISTOR, VARIABLE, 1M OHM, 1/2W	R44	1	1	1	1	1	1		
63	066-018	RESISTOR, M.F., 80.6K OHM, 1/8W, 1%	R99	1	1	1	1	1	1		
64	062-989	RESISTOR, M.F., 14K OHMS, 1/8W, 1%	R91	-	1	-	-	-	-		
65	586-075	INTEGRATED CIRCUIT, 7400N	A7,11	2	2	2	2	2	2		
66	589-813	74LS00N, 	A3,6	2	2	2	2	2	2		
67	590-332	74LS02N,	A4	1	1	1	1	1	1		
68	589-814	74LS04N,	A2,18,32	3	3	3	3	3	3		
69	589-815	74LS08N,	A25	1	1	1	1	1	1		
70	589-816	74LS10N,	A12	1	1	1	1	1	1		
71	589-820	74LS74N,	A26	1	1	1	1	1	1		
72	589-821	74LS85N,	A9	1	1	1	1	1	1		
73	590-453	74LS145N,	A14	1	1	1	1	1	1		
74	589-832	74LS193N,	A10,15	2	2	2	2	2	2		
75	589-934	74LS221N,	A1,28	2	2	2	2	2	2		
76	590-451	74390N,	A13,19	2	2	2	2	2	2		
77	589-854	74393N,	A5		1	1	1	1	1		
78	590-618	CD4066, 	A21,27	2	2	2	2	2	2		
79	590-619	RC4136, 	A22,23,24	3	3	3	3	3	3		
80		LM302	A30	1	1	1	1	1	1		
81	590-605	INTEGRATED CIRCUIT, LM311TC, 	A31	1	1	1	1	1	1		

10-153



Assembly No. 1400100-06R. AST Filter PWA, No. 10 (Accessory)



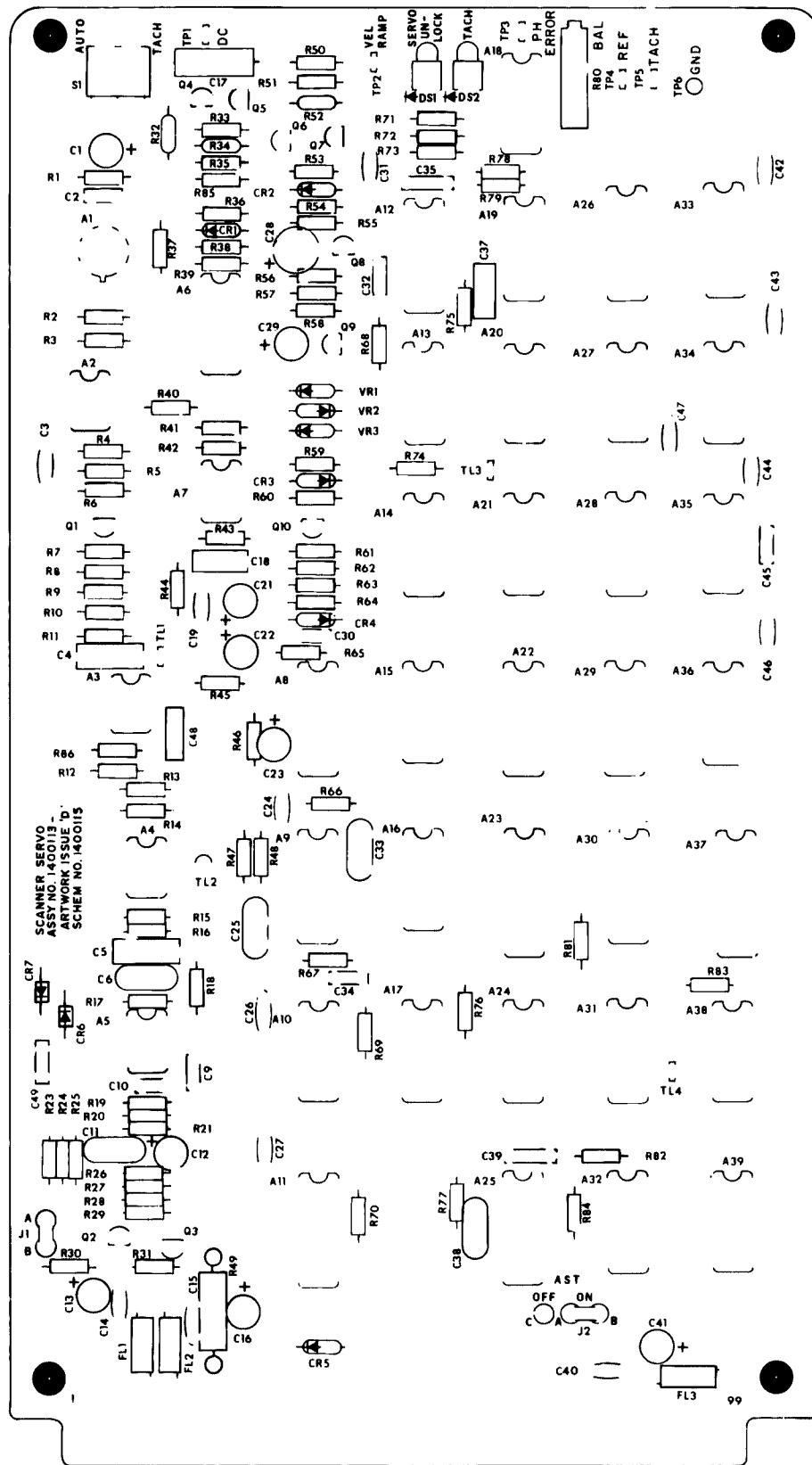
Schematic No. 1400102F.
AST Filter PWA, No. 10 (Accessory)
(Sheet 2 of 2)

ITEM NO.	PART NUMBER	DESCRIPTION	REF. DESIG.	QTY REQD PER DASH NUMBER									
				-01	-02	-03	-04	-05					
1													
2													
3	1400115	SCHEMATIC		(-)	B	D	E	F					
4													
5													
6													
7	103307-02	STANDOFF	REF:R49	2	2	2	2	2					
8													
9													
10													
11	1400003-01	SHIELD		1	1	1	1	1					
12	1400004-01	HANDLE		1	1	1	1	1					
13	1400005-AL	LABEL		1	1	1	1	1					
14													
15													
16	1400328	PROM. FINE GATE (589-575)	A23	-01	-01	-01	-01	-01					
17	1400329	PROM. COARSE GATE (589-575)	A37	-02	-02	-02	-02	-02					
18													
19													
20													
21													
22	064-116	CAPACITOR, CER., .01 UF., 50V., $\pm 20\%$	+80% C3,14,15,24,26,27,31,40, -20% 42-44,46,47	13									
23	064-116	CAPACITOR, CER., .01 UF., 50V., $\pm 30\%$	+30% C3,14,15,19,24,26,27,31, -20% 40,42,43,44,46,47		14	14	14	14					
24													
25	034-156	CAP., MICA, 5PF, 500V., $\pm 5\text{PF}$	C6	1	1	1		1					
26	034-240	CAP., MICA, 220PF., 500V., $\pm 5\%$	C33	1	1	1		1					
27	034-288	CAP., MICA, 390PF., 500V., $\pm 5\%$	C25,38	2	2	2	2	2					
28	034-918	CAP., MICA, 68PF., 500V., 1%	C11	1	1	1		1					
29													
30	030-963	CAP., MONO., .1UF, 100V., 10%	C9,10		2	2	2	2					
31	030-963	CAP., MONO., .1UF, 100V., 10%	C9,10,19	3									
32	064-318	CAP., MONO., 3.3UF., 50V., $\pm 20\%$	C18	1	1	1		1					
33	064-307	CAPACITOR, MONO., .22 UF, 100V., $\pm 20\%$	C49			1		1					
34	064-316	CAPACITOR, MONO., 2.2 UF, 50V., $\pm 20\%$	C48			1		1					
35	035-817	CAP., MYLAR, .015UF., 50V., 5%	C35,39	2	2	2	2	2					
36													
37													

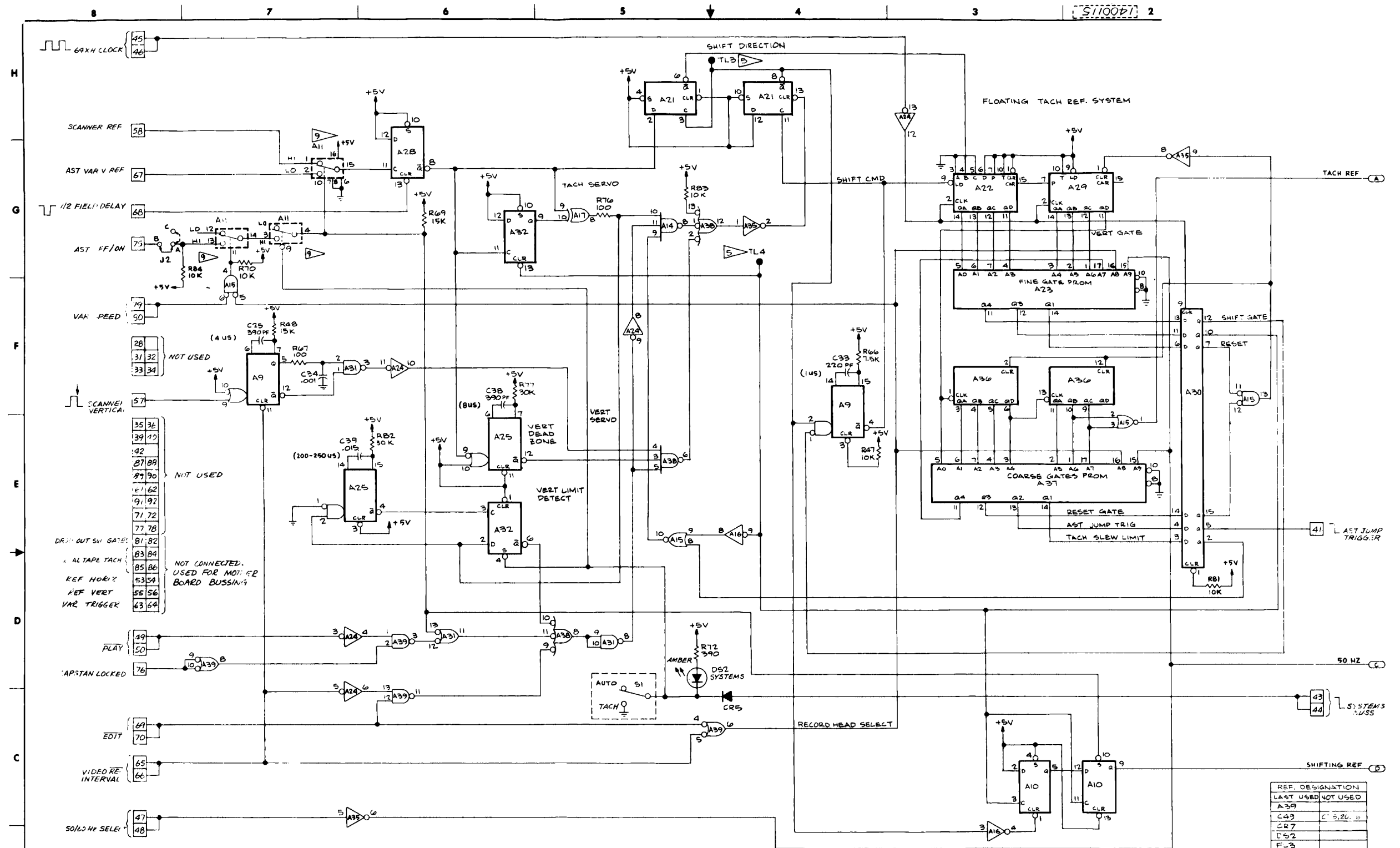
AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400113		SHEET 2		REV 4				
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER										
				-01	-02	-03	-04	-05						
38	055-810	CAP., POLY., .1UF., 100V., 1%	C17	1	1	1		1						
39	069-090	CAP., POLY., .001UF., 50V., 5%	C2,30,32,34,37,45.	6	6	6		6						
40	069-092	CAP., POLY., .047UF., 50V., 5%	C4,5.	2	2	2		2						
41														
42														
43	037-887	CAP., TANT., .47UF., 35V.,	C23	1	1	1		1						
44	037-894	CAP., TANT., 100UF., 10V.,	C28	1	1	1		1						
45	037-954	CAP., TANT., 22UF., 15V.,	C1,12,13,16,21,22,29,41.	8	8	8		8						
46														
47														
48														
49	013-599	DIODE, 1N4148, 75V., 1N4148	CR1-7							7				
50	013-599	DIODE, SIGNAL	CR1-5	5	5	5		5		-				
51	013-772	DIODE, STABISTOR, 1N751	VR1-3	3	3	3		3		3				
52	581-618	DIODE, LED, RED, DATA DISPLAY P/N-150R	DS1	1	1	1		1		1				
53	581-620	DIODE, LED, AMBER, DATA DISPLAY P/N-140R	DS2	1	1	1		1		1				
54														
55														
56														
57														
58	590-536	INTEGRATED CIRCUIT, 7406N	A13	1	1	1		1		1				
59	589-816	74LS10N	A14,27,38	3	3	3		3		3				
60	589-820	74LS74N	A10,18,21,28,32.	5	5	5		5		5				
61	589-813	74LS00N	A20,31,39.	3	3	3		3		3				
62	589-814	74LS04N	A16,24,34,35.	4	4	4		4		4				
63														
64	589-934	74LS221N	A8,9,12,25.	4	4	4		4		4				
65	590-617	LM 318	A5	1	1	1		1		1				
66	590-618	CD4066AE	A6	1	1	1		1		1				
67	590-450	CD4053BE	A11	1	1	1		1		1				
68	590-620	74LS86N	A17	1	1	1		1		1				
69														
70	590-332	74LS02N	A15,19	2	2	2		2		2				
71	589-830	74LS174N	A30	1	1	1		1		1				
72	590-333	74LS163N	A22,29	2	2	2		2		2				
73	590-605	LM311TC	A2,4	2	2	2		2		2				
74	589-180	CA3140T	A1	1	1	1		1		1				
75														
76	589-935	74LS393	A36	1	1	1		1		1				
77	590-336	74LS390	A26,33	2	2	2		2		2				
78	590-561	INTEGRATED CIRCUIT, CA3140E	A3,7	2	2	2		2		2				
79														
80														
81														
82														

AMPEX		CODE IDENT NO. 92739		LIST OF MATERIALS		LM-1400113		REV :H											
		REDWOOD CITY, CALIFORNIA				SHEET 3													
ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER														
					-01	-02	-03	-04	-05										
83	041-603	RES., C.C., 430 OHMS, 1W.	R49				1		1										
84																			
85																			
86	066-663	RES., C.F., 220 OHMS, 1/4W., 5%	R60				1		-		-								
87	066-665	1K OHMS,	R13,25,36,43,50, 59,63,64,74.				9		9		-		-						
88	066-667	3K OHMS,	R41,42				2		2		2		2		2				
89	066-668	4.7K OHMS,	R2,5,7,27,28,51, 54,58,62,78.				10		10		10		10		10				
90	066-670	9.1K OHMS,	R6,24				2		2		2		2		2				
91	066-665	RES., C.F. 1K, 1/4W., 5%	R13,25,36,43,50, 64,74						-		5/8		5/8		5/8				
92	066-689	2.2K OHMS,	R30,40				2		2		2		2		2				
93	066-711	7.5K OHMS,	R66				1		1		1		1		1				
94	066-715	1.2K OHMS,	R31				1		1		1		1		1				
95	066-717	47K OHMS,	R45				1		-		-		-		-				
96	066-720	3.3K OHMS,	R61				1		1		1		1		1				
97	066-663	RES., C.F., 220 OHMS, 1/4W., 5%	R60,86						-		2		2		2				
98	066-810	10 OHMS,	R35				1		1		1		1		1				
99	066-812	100 OHMS,	R18,19,26,37,67, 75,76.				7		7		7		7		7				
100	055-814	270 OHMS,	R8				1		1		1		1		1				
101	066-816	390 OHMS,	R71,72				2		2		2		2		2				
102	066-818	470 OHMS,	R44				1		1		-		-		-				
103	066-818	RES., C.F., 470 OHMS, 1/4W., 5%	R44,59,63						-		3		3		3				
104	066-829	6.8K OHMS,	R12				1		1		1		1		1				
105	066-830	10K OHMS,	R15,16,38,39,47, 53,70,73,81,83,84				11		11		11		11		11				
106	066-832	18K OHMS,	R79				1		1		1		1		1				
107	066-834	33 OHMS,	R1				1		1		1		1		1				
108	066-843	6.2K OHMS,	R23				1		1		1		1		1				
109	066-845	24K OHMS,	R68,79								2		2		2				
110	066-845	24K OHMS,	R68				1		1		1		1		1				
111	066-846	30K OHMS,	R77,82				2		2		2		2		2				
112	066-847	33K OHMS,	R11				1		1		1		1		1				
113	066-849	100K OHMS,	R3,56				2		2		2		2		2				
114	066-853	200K OHMS,	R14				1		1		1		1		1				
115	066-849	100K OHMS,	R3,45,56								3		3		3				
116	066-856	15K OHMS,	R46,48,65,69				4		4		4		4		4				
117	066-873	20K OHMS,	R4,9,10,20,21				5		5		5		5		5				
118	066-938	47 OHMS,	R29,33,55,57				4		4		4		4		4				
119	076-053	RES., C.F., 390K OHMS, 1/4W., 5%	R17				1		1		1		1		1				
120																			
121																			
122	062-624	RES., M.F., 1KOHM, 1/8W., 1%	R34				1		1		1		1		1				
123	062-642	RES., M.F., 6.81KOHM, 1/8W., 1%	R32,52				2		2		2		2		2				
124	066-175	RES., M.F., 1.18KOHM, 1/8W., 1%	R85				1		1		1		1		1				
125																			
126																			
127	058-668	RES., VAR., 20KOHMS, 3/4W.,	R80				1		1		1		1		1				

[illegible]



Assembly No. 1400113-05H. Scanner Servo PWA, No. 11

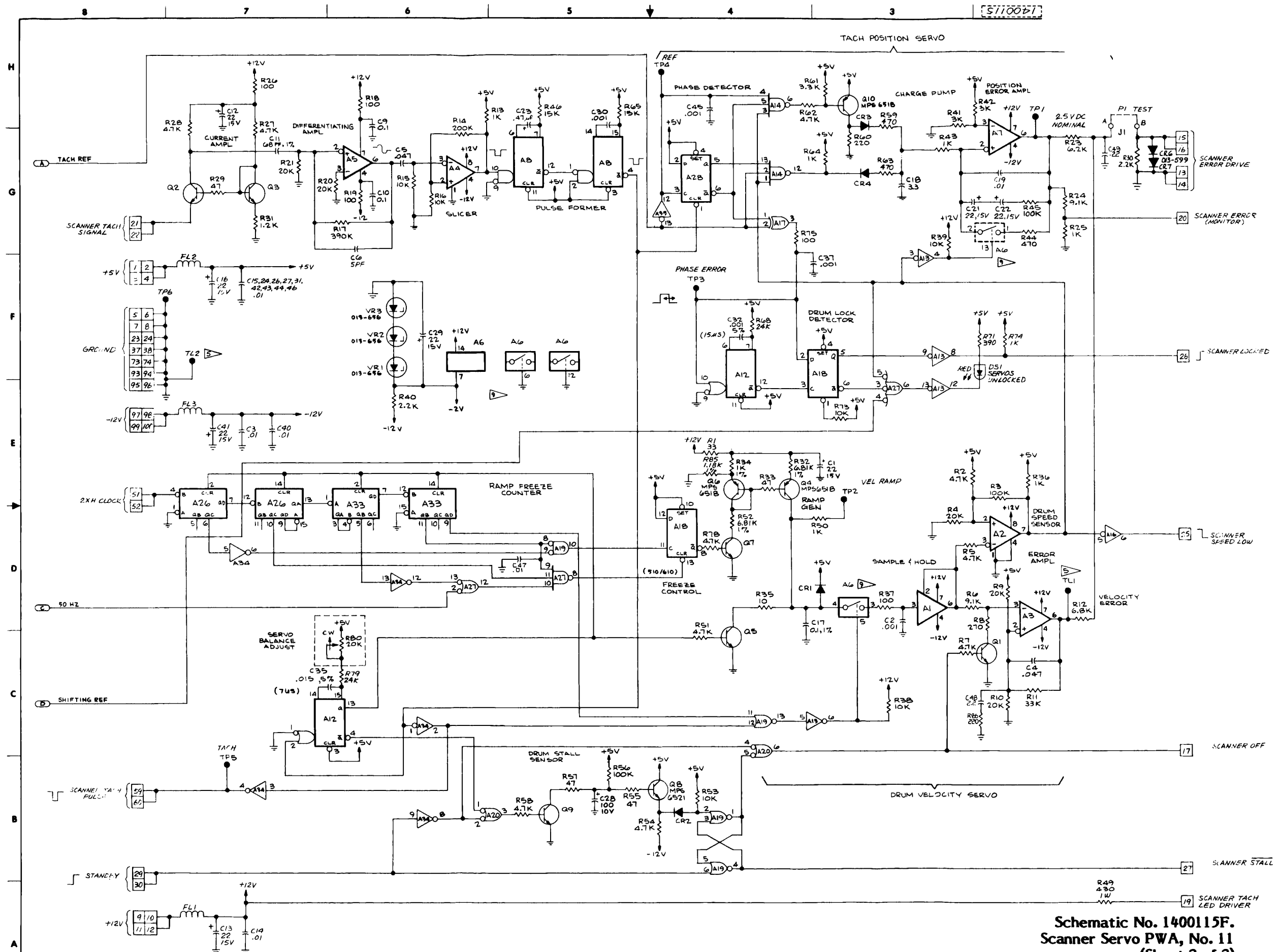


REF. DES.	A23	A37	A1	A13	A37	A14, 27, 38	A0, 10, 21, 28, 32	A20, 31, 39	A16, 24, 34, 35	A8, 9, 12, 25
AMPEX P/N	140032B	140032A	589-180	590-336	590-561	589-816	589-820	589-813	589-814	589-934
VENDOR P/N	MM16353-1	MM16353-1	CA3140T	7406N	CA3140E	74LS10N	74LS14N	74LS00N	74LS04N	74LS22N
VOLTAGE PIN	1B	1B	7(+) 4(-)	14	7(+) 4(-)	14	14	14	14	16
GND PIN	9	9	—	7	—	7	7	7	7	8

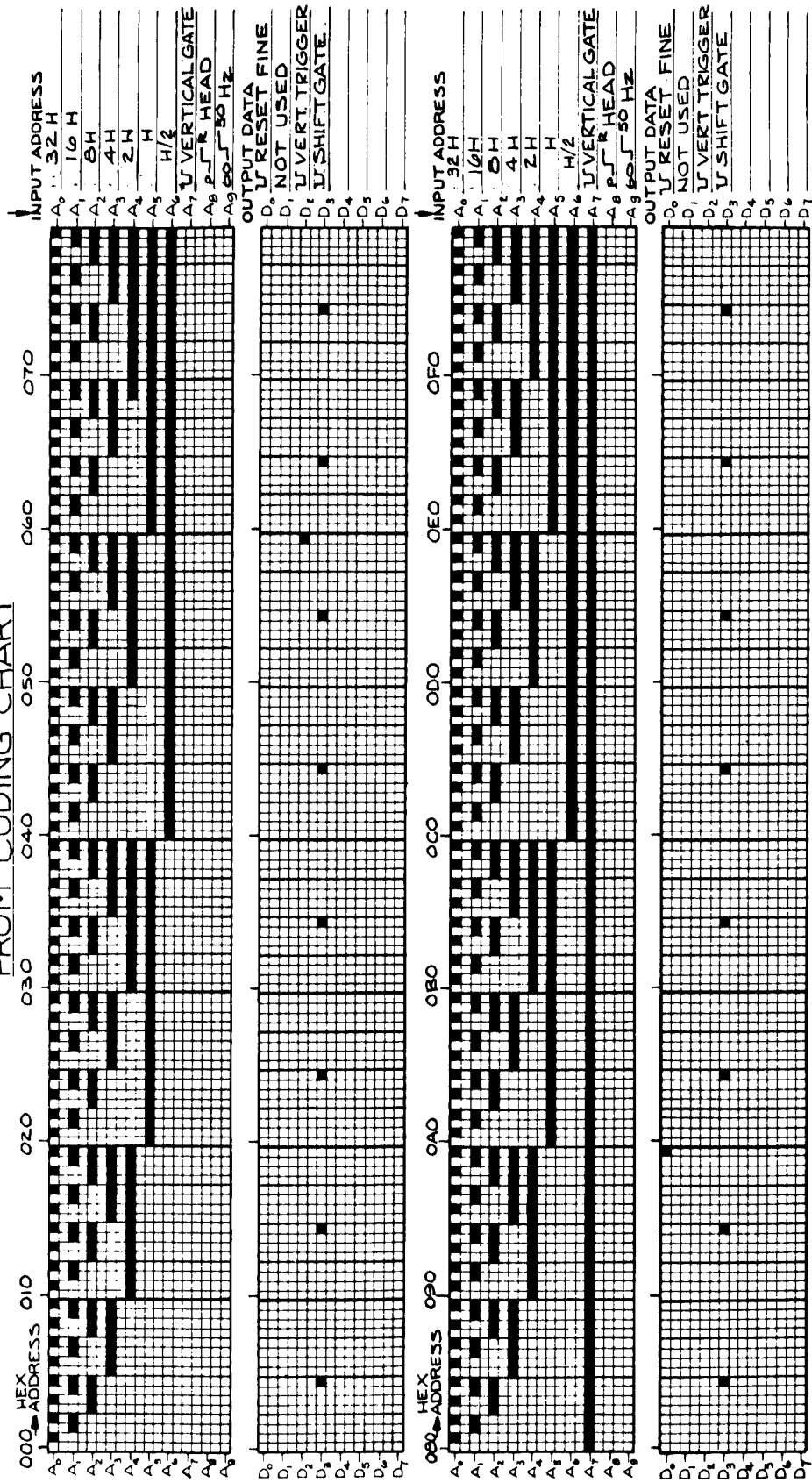
REF. DES.	A5	A16, 19	A17	A15, 19	A20, 33	A36	A30	A22, 29	A24	A11
AMPEX P/N	590-617	590-618	590-620	590-332	590-336	589-935	589-830	590-333	590-605	590-450
VENDOR P/N	LM318	CD4066AB	74LS06N	74LS02N	74LS00N	74LS333	74LS14N	74LS16N	LM311TC	CD4093BB
VOLTAGE PIN	7(+) 4(-)	14(+) 7(-)	14	14	14	14	16	16	8(+) 4(-)	16(+) 8(-)
GND PIN	—	—	7	7	8	7	8	8	—	8

- NOTES: UNLESS OTHERWISE SPECIFIED.
1. THIS SCHEMATIC REFLECTS PWA 1400113-05.
 2. RESISTANCE VALUES ARE IN OHMS, 1/4 W, 5%, CARBON COMP.
 3. CAPACITANCE VALUES ARE IN MICROFARADS.
 4. TRANSISTORS ARE MP6514.
 5. TL DENOTES TEST LUG.
 6. INDUCTANCE IS IN MICROHENRIES.
 7. DIODES ARE P/N 013-599.
 8. 1% RESISTORS ARE 1/8 W METAL FILM.
 9. STATIC SENSITIVE. SPECIAL HANDLING REQUIRED PER HEI-1.

Schematic No. 1400115F.
Scanner Servo PWA, No. 11
(Sheet 1 of 2)

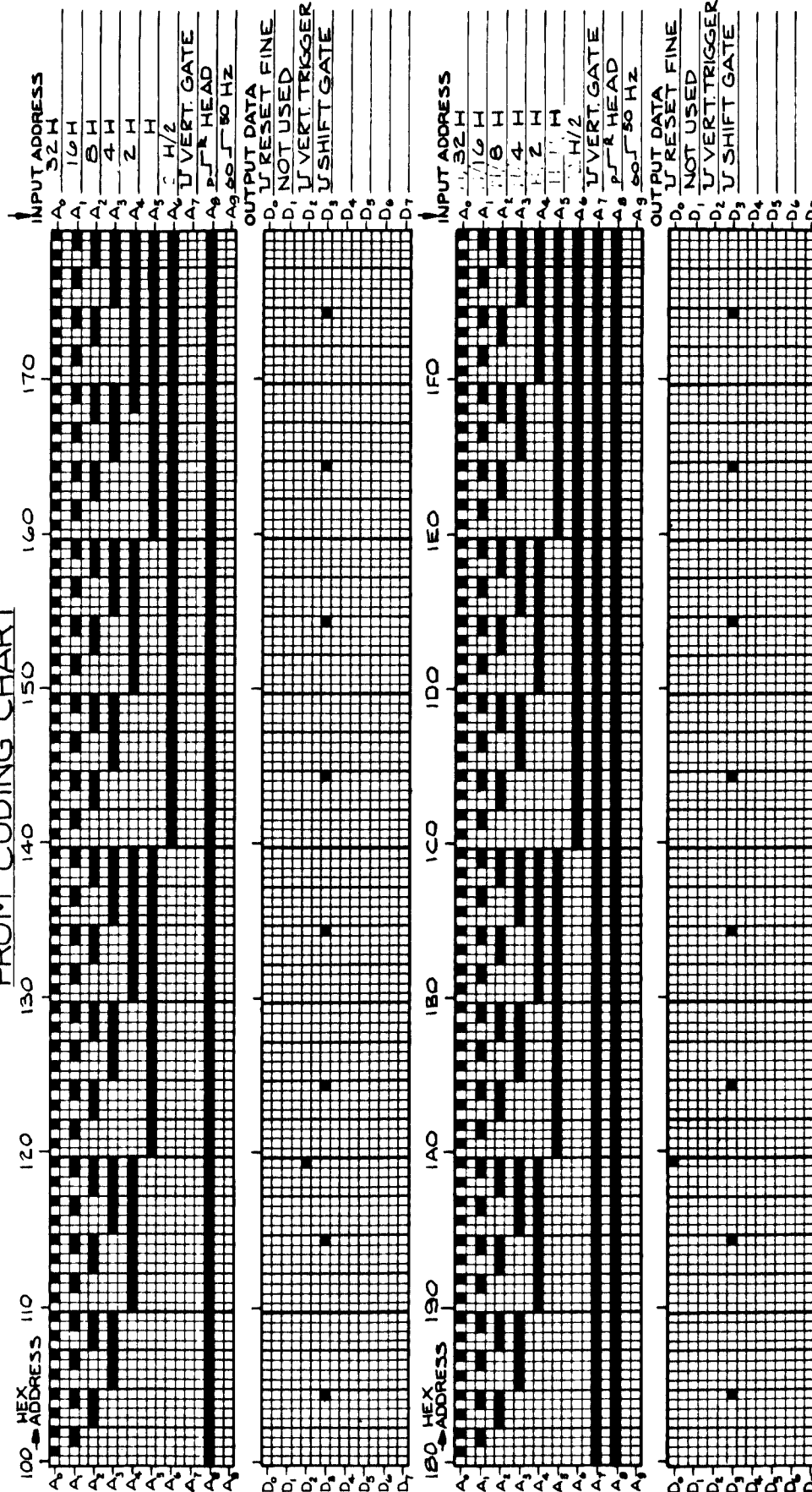


PROM CODING CHART



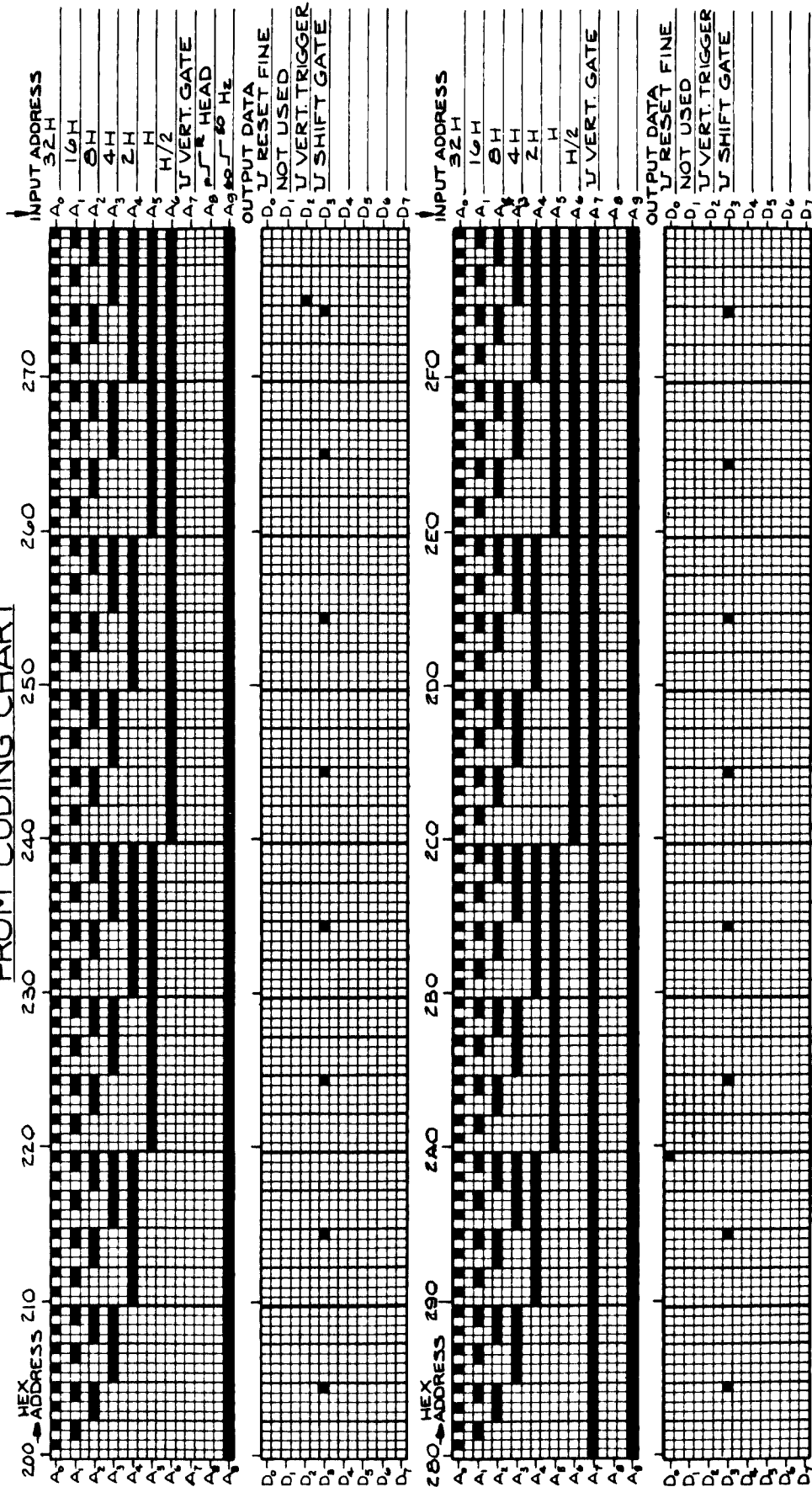
SCHEMATIC NO. 1400112
 SCHEMATIC REF. NO. A23
 NEXT ASSEMBLY NO. 1400110
 PROM NO./ PART NO. 1400328-01

PROM CODING CHART



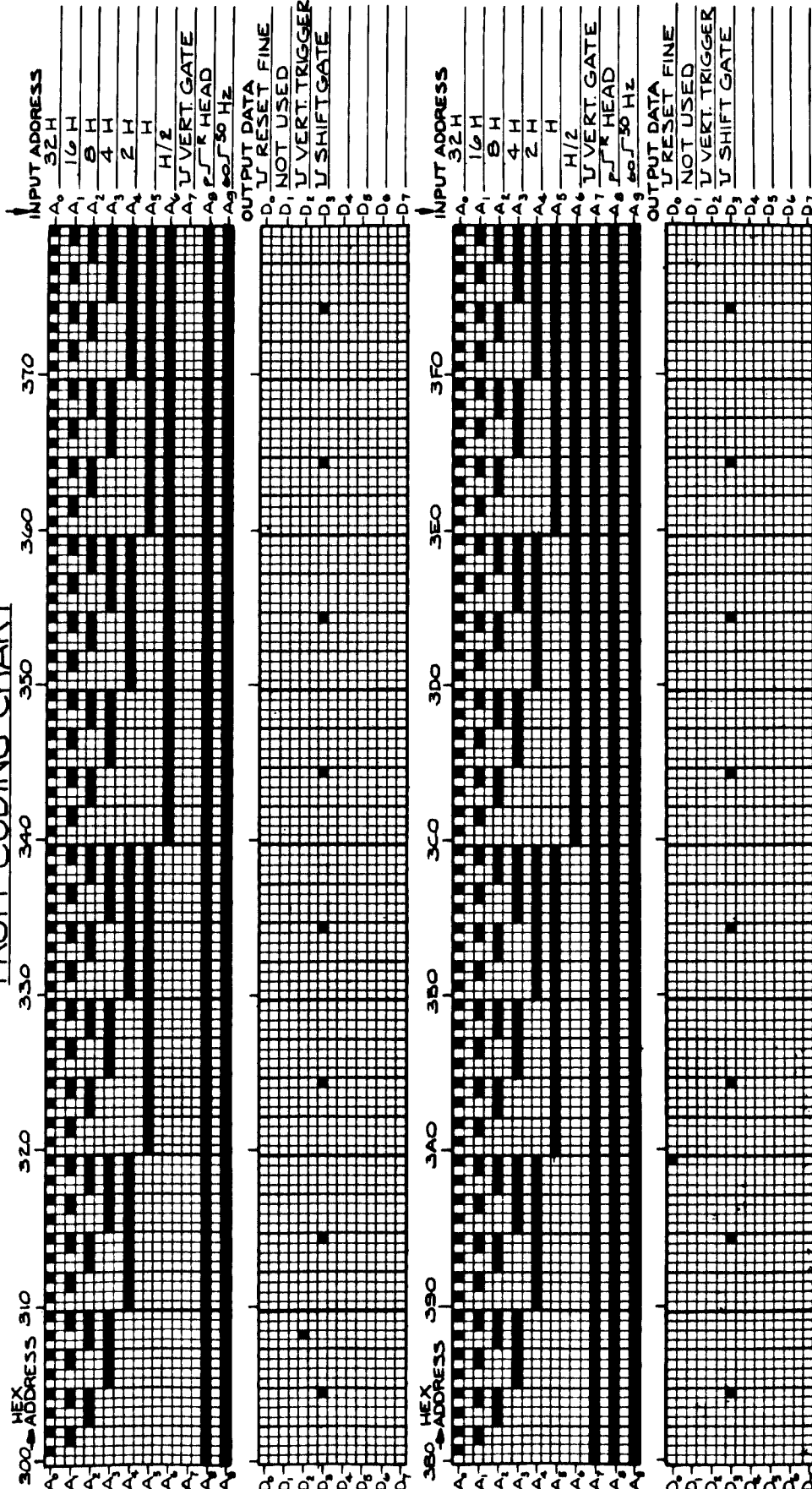
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 SCHEMATIC REF. NO. A23
 NEXT ASSEMBLY NO. 1400110
 PROM NO. / PART NO. 1400328-01

PROM CODING CHART



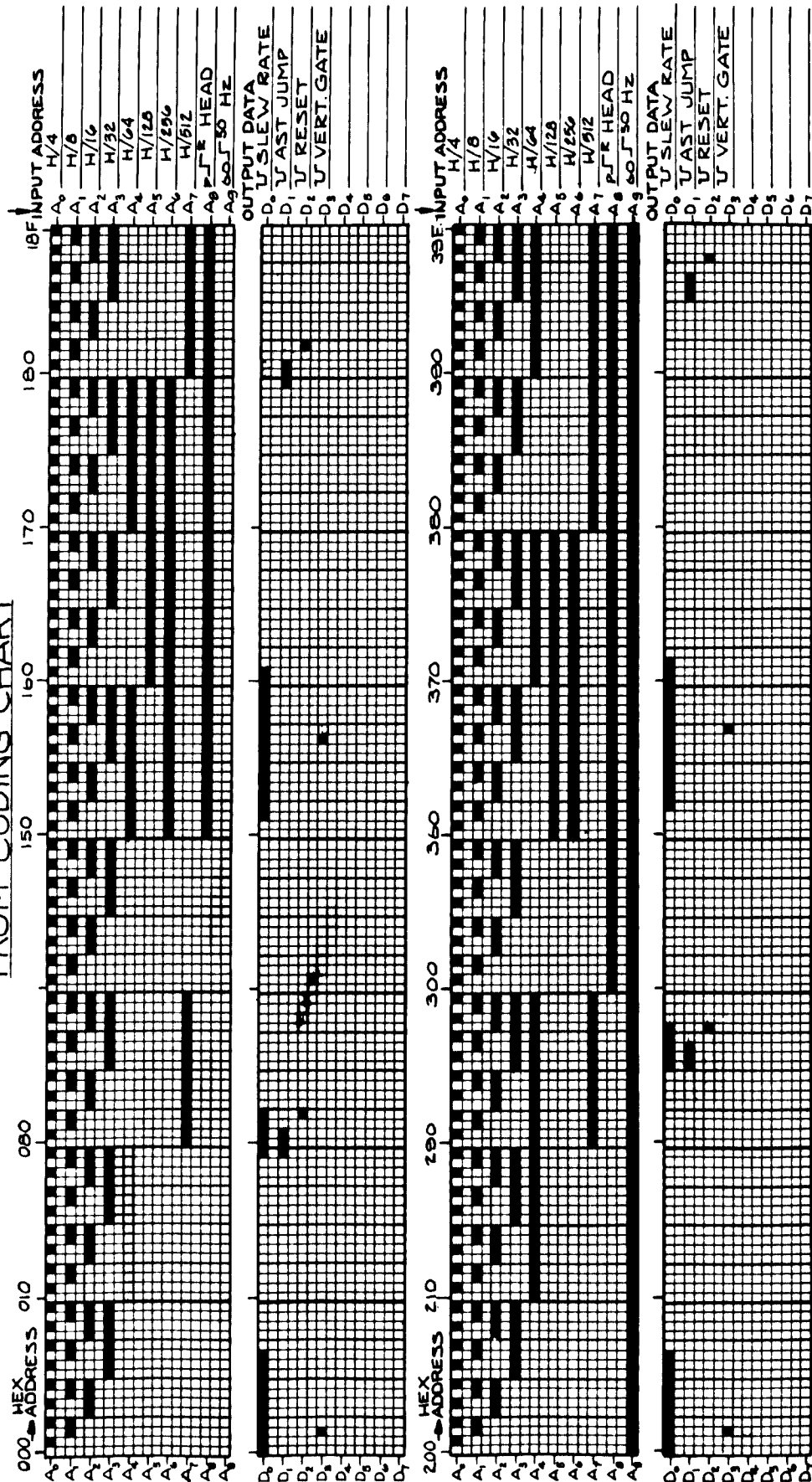
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 SCHEMATIC REF. NO. A23
 NEXT ASSEMBLY NO. 1400110
 PROM NO. / PART NO. 1400328-01

PROM CODING CHART



SCHEMATIC NO. 1400112
 SCHEMATIC REF NO. A23
 NEXT ASSEMBLY NO. 1400110
 PROM NO. / PART NO. 1400328-01

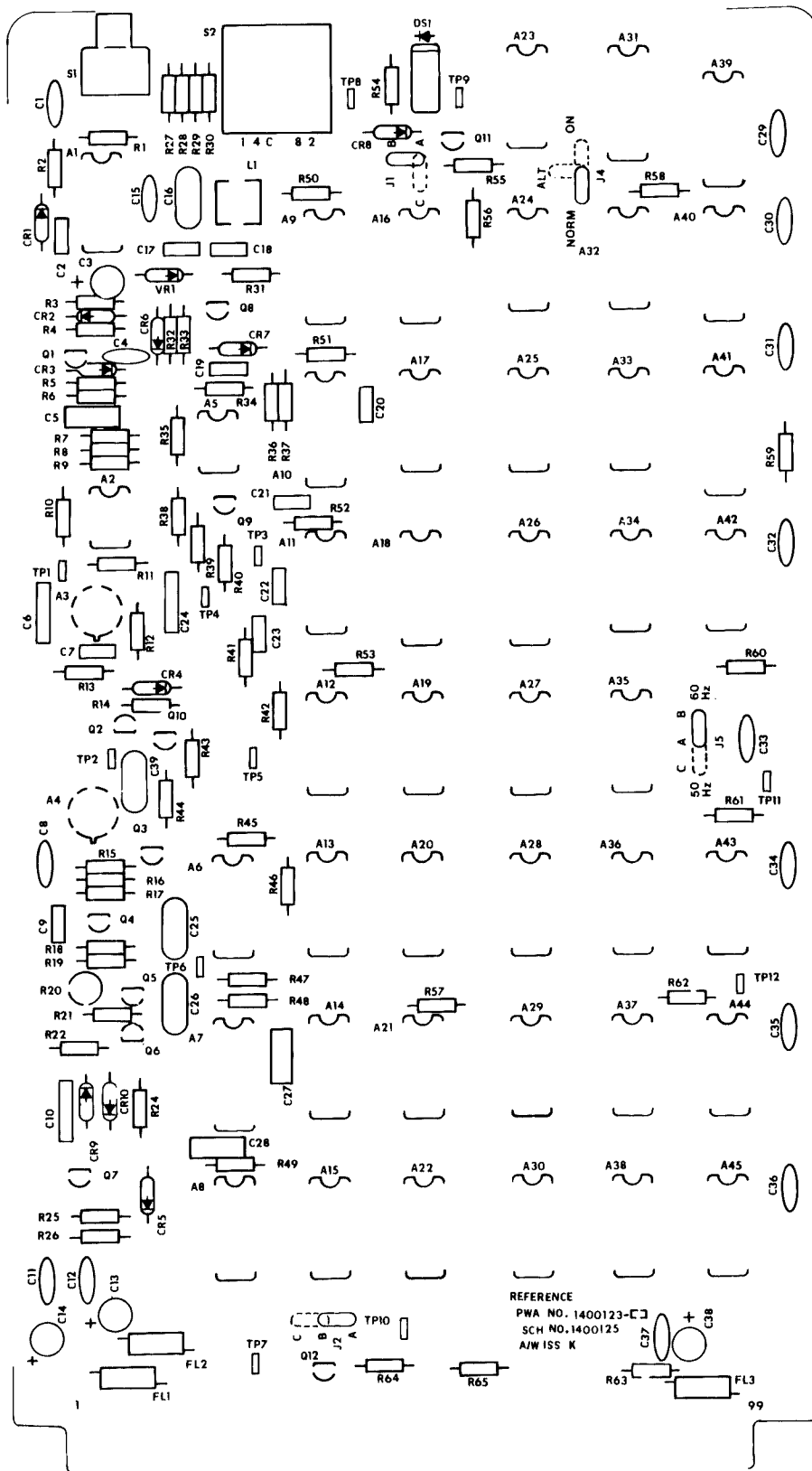
PROM CODING CHART



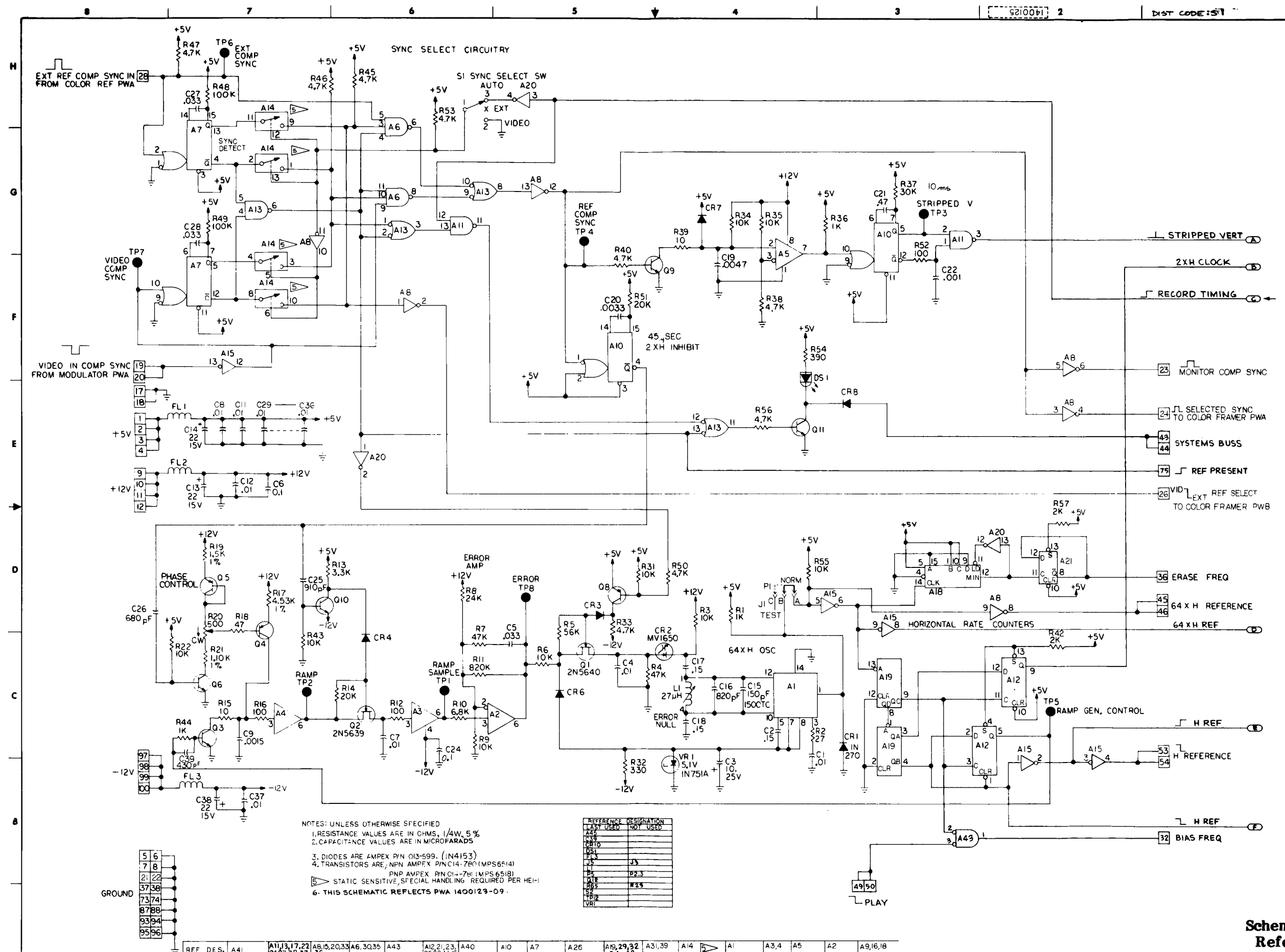
SCHEMATIC NO. 1400112
 SCHEMATIC REF NO. A37
 NEXT ASSEMBLY NO. 1400110
 PROM NO./ PART NO. 1400329-01

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02	-03	-04	-05	-06	-07	-08	-09	
1		PWB REFERENCE		01	02	03	04	05	06	07	08		
2	1400125	SCHEMATIC		(-)	A	B	C	D	E	F	G	J	
3	1374188-01	INDUCTOR, FILTER	FL1-FL3	3	3	3	3	3	3	3	3	3	
4	013-599	DIODE, SIGNAL, CD458	CR3,4,5,6,7,8	6	6	-	-	-	-	-	-	-	
5	581-620	DIODE, LED, AMBER	DS1	1	1	1	1	1	1	1	1	1	
6	013-358	DIODE, ZENER, 5.1V, CD32 (1N751A)	VR1	1	1	1	1	1	1	1	1	1	
7	038-243	DIODE, VARACTOR, (MV1650)	CR2	1	1	1	1	1	1	1	1	1	
8	013-188	DIODE, SIGNAL, (1N270)	CR1	1	1	1	1	1	1	1	1	1	
9	014-780	TRANSISTOR, MPS6514	Q3,6,7,9,10,11	6	6	6	6	6	6	6	6	6	
10	014-781	TRANSISTOR, (MPS6518)	Q4,5,8	3	3	3	3	3	3	3	3	3	
11	580-453	TRANSISTOR, (2N5639)	Q2	1	1	1	1	1	1	1	1	1	
12	580-381	TRANSISTOR, (2N5640)	Q1	1	1	1	1	1	1	1	1	1	
13	587-510	INTEGRATED CIRCUIT, 74LS00N	A11,13,27,17,24,38,37	7	7	7	-	-	-	-	-	-	
14	589-814	74LS04N, PRESTRD	A8,15,20,33,36	5	5	5	5	5	5	5	5	5	
15	589-816	74LS10N,	A6,30,35	3	3	3	3	3	3	3	3	3	
16	590-332	74LS02N,	A43	1	1	1	1	1	1	1	1	1	
17	589-820	74LS74N,	A12,21,23,25,28,44,45	7	7	7	7	7	7	7	7	7	
18	589-831	74LS175N,	A40	1	1	1	1	1	1	1	1	1	
19	589-813	74LS00N,	A11,13,17,22,24,27,37,38			8	8	8	8	8	8	8	
20	590-616	74221N,	A10	1	1	1	1	1	1	1	1	1	
21	590-329	74LS123N,	A7	1	1	1	1	1	1	1	1	1	
22	589-935	74LS393,	A19,29,32,34,42			5	5	5	5	5	5	5	
23	589-951	74LS191N,	A9,16,18	3	3	3	3	3	3	3	3	3	
24	590-451	74390N, PRESTRD	A26	1	1	1	1	1	1	1	1	1	
25	589-334	74LS393N	A19,32,34,42	4	4	4	-	-	-	-	-	-	
26	1400330	PROM, TACH GATE	A41	01	01	02	02	02	02	02	02	02	
27	589-933	74LS161N, PRESTRD	A31,39	2	2	2	2	2	2	2	2	2	
28	590-618	CD4066AE, PRESTRD	A14	1	1	1	1	1	1	1	1	1	
29	589-048	MC1648L	A1	1	1	1	1	1	1	1	1	1	
30	586-261	LM302	A3,4	2	2	2	2	2	2	2	2	2	
31	590-605	LM311TC, PRESTRD	A5	1	1	1	1	1	1	1	1	1	
32	590-611	INTEGRATED CIRCUIT, LM741TC, PRESTRD	A2	1	1	1	1	1	1	1	1	1	
33													
34	030-095	CAPACITOR, MONO, .1uF, 25V, 20%	C6,10,24			3	3	3	3	3	3	3	
35	037-812	CAPACITOR, TANT., 10uF, 25V 20%	C3	1	1	1	1	1	1	1	1	1	
36	037-954	CAPACITOR, TANT., 22uF, 15V, 20%	C13,14,38	3	3	3	3	3	3	3	3	3	
37	030-095	CAPACITOR, MONO., .1uF, 25V, 20%	C6,24	2	2	-	-	-	-	-	-	-	

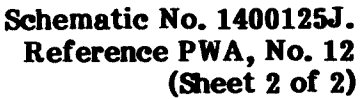
AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400123	SHEET 2		REV M				
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				01	02	03	04	05	06	07	08	09	
38	064-116	CAPACITOR, CER, .01uF, 50V	C15	16	16								
39	064-526	CER, .150pF, 1000V, 5%	C15	1	1	1	1	1	1	1	1	1	1
40	069-090	POLY, .001uF, 50V, 5%	C23	1	1	1	1	1	1	1	1	1	1
41	069-111	.0015uF	C9	1	1	1	1	1	1	1	1	1	1
42	069-107	.0033uF	C20	1	1	1	1	1	1	1	1	1	1
43	069-103	.0047uF	C19	1	1	1	1	1	1	1	1	1	1
44	069-100	.01uF	C7	1	1	1	1	1	1	1	1	1	1
45	069-095	POLY, .033uF	C5, 27, 28	3	3	3	3	3	3	3	3	3	3
46	064-116	CER, .01 uF, 50V, +80% -20%	C1, 4, 8, 11, 12, 22, 29-37			14	14	14	14	14	14	14	14
47	064-306	MONO, .15uF, 100V, 20%	C2, 17, 18	3	3	3	3	3	3	3	3	3	3
48	064-309	MONO, .47uF, 100V, 20%	C21	1	1	1	1	1	1	1	1	1	1
49	034-386	MICA, 910pF, 100V, 5%	C25	1	1	1	1	1	1	1	1	1	1
50	034-930	MICA, 680pF, 300V, 5%	C26	1	1	1	1	1	1	1	1	1	1
51	034-283	CAPACITOR, MICA, 820 pF, 300V, 5%	C16			1	1	1	1	1	1	1	1
52	034-838	CAPACITOR, MICA, 430 pF, 300V, 5%	C39		1	1	1	1	1	1	1	1	1
53	069-090	CAPACITOR, POLY, .001uF, 50V, 5%	C22, 23			2	2	2	2	2	2	2	2
54	066-810	RESISTOR, C.F. 10 OHM, 1/4W, 5%	R15, 39	2	2	2	2	2	2	2	2	2	2
55	076-041	27	R2	1	1	1	1	1	1	1	1	1	1
56	066-938	47	R18, 60	2	2	2	2	2	2	2	2	2	2
57	066-812	100	R12, 16, 52	3	3	3	3	3	3	3	3	3	3
58	066-662	200	R41	1	1	1	1	1	1	1	1	1	1
59	066-838	330	R32	1	1	1	1	1	1	1	1	1	1
60	066-816	390	R54	1	1	1	1	1	1	1	1	1	1
61	066-665	1K	R1, 26, 25, 36, 44	5	5	5	5	5	5	5	5	5	5
62	066-826	2K	R24, 42, 57, 58, 62	5	5	5	5	5	5	5	5	5	5
63	066-688	4.7K	R27-30, 33, 38, 40, 45-47, 50, 53, 56, 61			14	14	14	14	14	14	14	14
64	066-720	3.3K	R13	1	1	1	1	1	1	1	1	1	1
65	066-668	4.7K	R23, 27, 28, 29, 30, 33 38, 40, 45, 46, 47, 50, 53, 56	15	15								
66	066-829	6.8K	R10	1	1	1	1	1	1	1	1	1	1
67	066-830	10K	R3, 6, 9, 22, 31, 34, 35, 43 48, 49, 55	11	11								
68	066-873	20K	R14, 51	2	2	2	2	2	2	2	2	2	2
69	066-845	24K	R8	1	1	1	1	1	1	1	1	1	1
70	066-846	30K	R37	1	1	1	1	1	1	1	1	1	1
71	066-717	47K	R4, 7	2	2	2	2	2	2	2	2	2	2
72	066-833	56K	R5	1	1	1	1	1	1	1	1	1	1
73	066-849	100K	R48, 49			2	2	2	2	2	2	2	2
74	076-056	C.F., 820K OHM, 1/4W, 5%	R11	1	1	1	1	1	1	1	1	1	1
75	066-830	C.F., 10K OHM, 1/4W, 5%	R3, 6, 9, 22, 31, 34, 35, 43, 48, 49, 55, 63			12	12	12	12	12	12	12	12
76	062-932	M.F. 1.5KOHM, 1/8W, 1%	R19	1	1	1	1	1	1	1	1	1	1
77	062-964	M.F. 4.53K OHM 1/8W 1%	R17	1	1	1	1	1	1	1	1	1	1
78	062-928	M.F. 1.10K OHM 1/8W, 1%	R21	1	1	1	1	1	1	1	1	1	1
79	066-859	RESISTOR, C.F. 240 OHM, 1/4W, 5%	R59	1	1	1	1	1	1	1	1	1	1
80	044-927	RESISTOR, VAR. 500OHM 1/2W, 10%	R20	1	1	1	1	1	1	1	1	1	1
81	1374388-AT	INDUCTOR, VAR. 27 uH	L1	1	1	1	1	1	1	1	1	1	1
82	066-830	RESISTOR, CF, 10K OHM, 1/4W, 5%	R3, 6, 9, 22, 31, 34, 35, 43, 48, 49, 55, 63			10	10	10	10	10	10	10	10



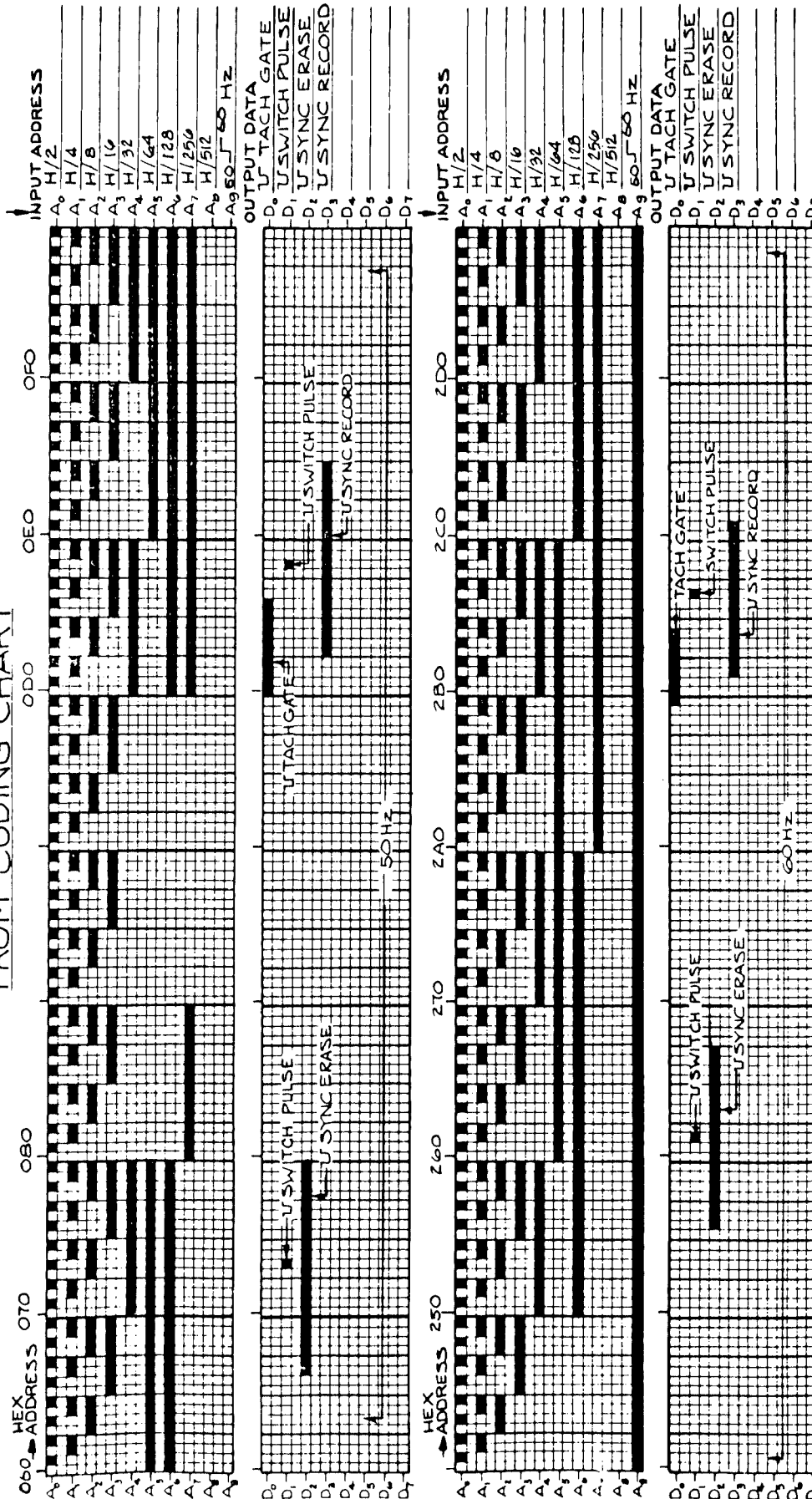
Assembly No. 1400123-09N. Reference PWA, No. 12



Schematic No. 1400125J.
 Reference PWA, No. 12
 (Sheet 1 of 2)



PROM CODING CHART

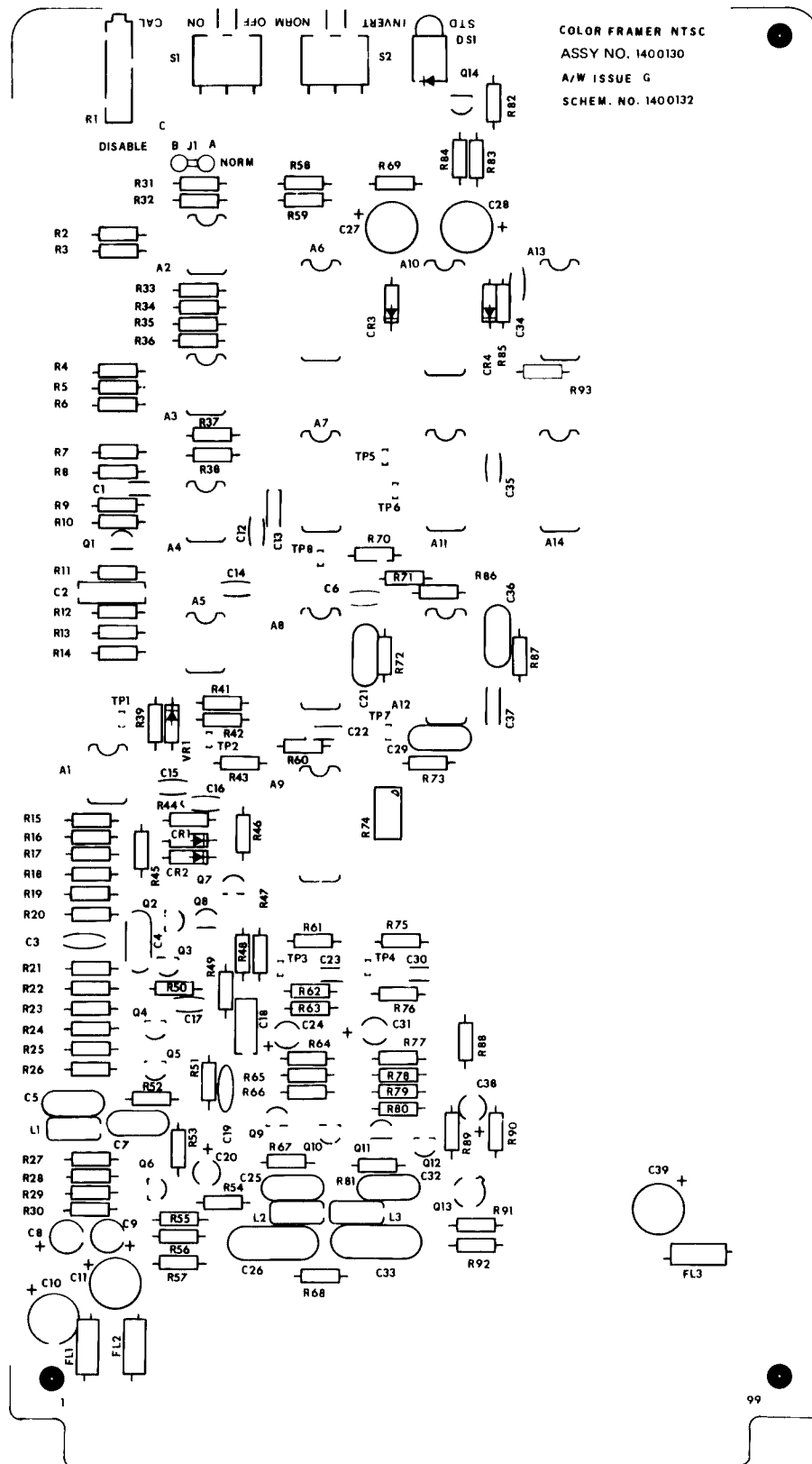


SCHEMATIC NO. 1400125
 SCHEMATIC REF NO. A41
 NEXT ASSEMBLY NO. 1400123
 PROM NO./ PART NO. 1400330-01

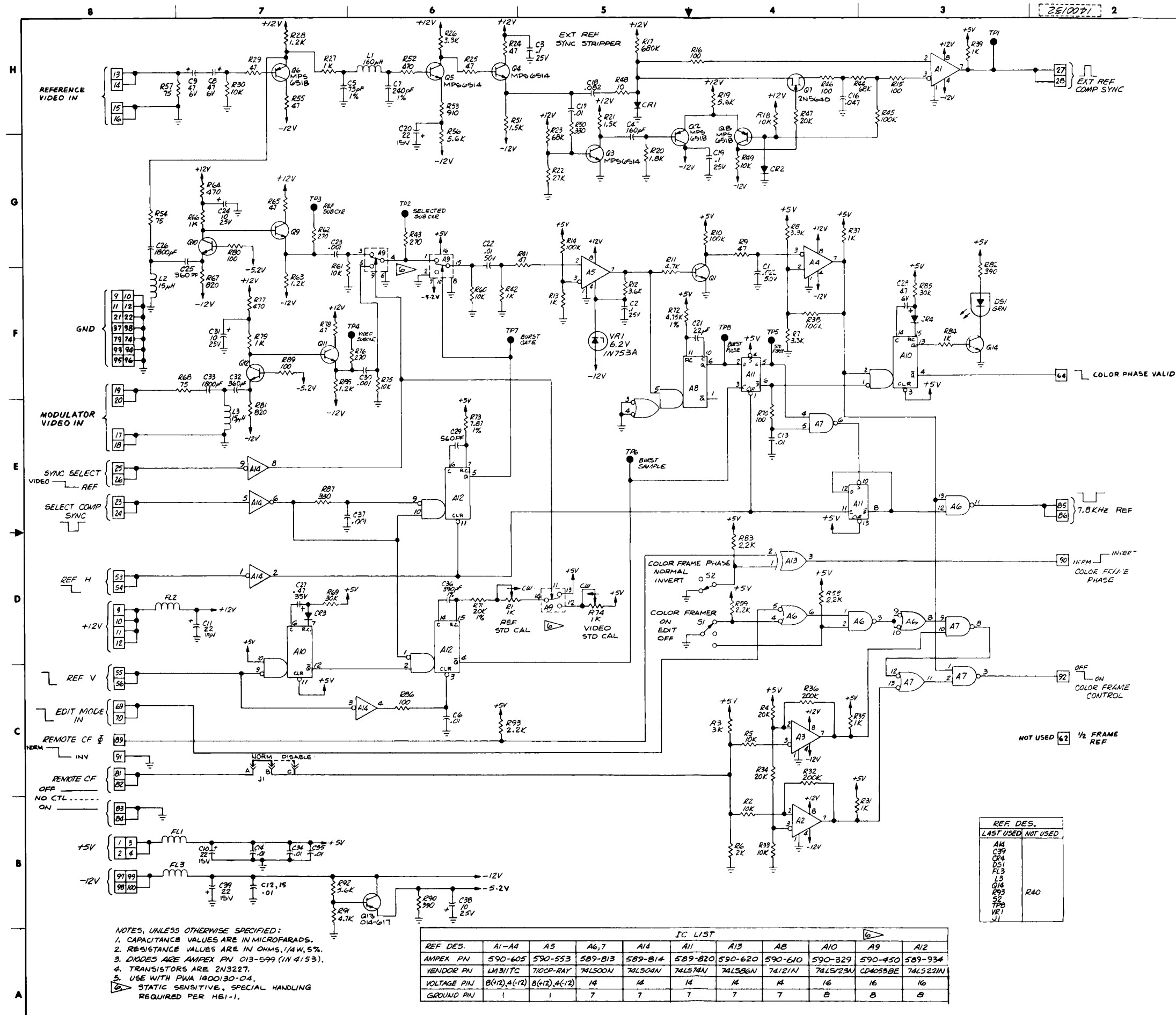
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-03	-04							
1		PRINTED WIRING BOARD		-03									
2	1400132	SCHEMATIC		C	D	F							
3	1400003-01	SHIELD		1	1	1							
4	1400004-01	HANDLE		1	1	1							
5	1374188-01	INDUCTOR, FILTER	FL1,2,3	3	3	3							
6	1400005-AN	LABEL		1		1							
7	013-599	DIODE (1N4531)	CR1-4	4	4	4							
8	013-257	DIODE, ZENER, 6.2V (1N753A)	VR1	1		1							
9	581-619	DIODE, LED, GRN (PCL-190G)	DS1	1		1							
10	014-580	TRANSISTOR, HPN, (2N3227)	Q1,9-12,14	6	6	6							
11	014-617	TRANSISTOR, (CD500) PNP	Q13	1		1							
12	014-780	TRANSISTOR, (MPS 6514)	Q3,4,5	3	3	3							
13	014-781	TRANSISTOR, (MPS 6518)	Q2,6,8	3	3	3							
14	580-381	TRANSISTOR, (2N5640)	Q7	1		1							
15													
16	056-164	CAPACITOR, MICA, 22pF, 1%	C21	1		1							
17	034-934	CAPACITOR, MICA, 360pF, 5%	C25,32	2	2	2							
18	034-298	CAPACITOR, MICA, 390pF, 1%	C36	1		1							
19	034-929	CAPACITOR, MICA, 560pF, 5%	C29	1		1							
20	034-285	CAPACITOR, MICA, 75pF, 1%	C5	1		1							
21	034-543	CAPACITOR, MICA, 240pF, 1%	C7	1		1							
22	034-216	CAPACITOR, MICA, 1800pF	C26,33	2	2	2							
23	034-224	CAPACITOR, MICA, 160pF, 1%	C4	1		1							
24	037-887	CAPACITOR, TANT., .47uF, 35V, $\pm 20\%$	C27	1		1							
25	037-812	CAPACITOR, TANT., 10uF, 25V, $\pm 20\%$	C24,31,38	3	3	3							
26													
27	037-954	CAPACITOR, TANT., 22uF, 15V	C10,11,20,39	4	4	4							
28													
29	037-298	CAPACITOR, TANT., 47uF, 6V	C8,9,28	3	3	3							
30													
31	069-090	CAPACITOR, POLY., .001uF, 50V, 5%	C23,30,37	3	3	3							
32	069-100	CAPACITOR, POLY., .01uF, 50V, 5%	C22	1		1							
33	069-092	CAPACITOR, POLY., .047uF, 50V, 5%	C16	1		1							
34	069-112	CAPACITOR, POLY., .082uF, 50V, 5%	C18	1		1							
35	069-097	CAPACITOR, POLY., .022uF, 50V, 5%	C1	1		1							
36													
37													

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1400130 SHEET 2	REV K								
ITEM NO	PART NUMBER	DESCRIPTION			REF DESIG	QTY REQD PER DASH NUMBER									
						-02	-03	-04							
38							1								
39	064-116	CAPACITOR, CER., .01uF, 50V, ^{+80%} _{-20%}		C6,12-15,17,34,35		8	8	8							
40															
41	030-095	CAPACITOR, MONO., .1uF, 25V		C2,3,19		3	3	3							
42															
43	068-062	INDUCTOR, FIXED, 160uH, 5%		L1			1	1							
44	051-905	INDUCTOR, FIXED, 15uH, ^{+10%}		L2,3		2	2	2							
45	066-665	RESISTOR, CARBON FILM, 1K OHMS, 1/4W, 5%		R13,27,31,35,37,39,42,66,79,84		10	10	10							
46	066-814	RESISTOR, CARBON FILM, 270 OHMS, 1/4W, 5%		R43,62,76		8	3	3							
47	066-810	RESISTOR, CARBON FILM, 10 OHMS, 1/4W, 5%		R48			1	1							
48	066-938	47 OHMS,		R9,24,25,29,41,55,65,78		8	8	8							
49	076-045	75 OHMS,		R54,57,68		8	3	3							
50	066-812	100 OHMS,		R15,16,46,70,80,86,89		7	7	7							
51															
52	066-838	330 OHMS,		R50,87		2	2	2							
53	066-816	390 OHMS,		R82,90		2	2	2							
54															
55	066-821	820 OHMS,		R67,81		2	2	2							
56															
57															
58	066-824	1.5K OHMS,		R21,51		2	2	2							
59	066-715	1.2K OHMS,		R28,63,88		8	3	2							
60	066-675	1.8K OHMS,		R20			1	1							
61	066-826	2K OHMS,		R6			1	1							
62	066-689	2.2K OHMS,		R58,59,83,93		4	4	4							
63	066-667	3K OHMS,		R3			1	1							
64	066-720	3.3K OHMS,		R7,8,26		8	3	3							
65	066-863	3.6K OHMS,		R12			1	1							
66	066-668	4.7K OHMS,		R11,91		2	2	2							
67	066-718	5.6K OHMS,		R19,56,92		8	3	3							
68	066-830	10K OHMS,		R2,5,18,30,33,49,60,61,75		8	9	9							
69	066-873	20K OHMS,		R4,34,47		8	3	3							
70	066-866	27K OHMS,		R22			1	1							
71	066-846	30K OHMS,		R69,85		2	2	2							
72	076-009	68K OHMS,		R23,44		2	2	2							
73	066-849	100K OHMS,		R10,14,38,45		4	4	4							
74	066-853	200K OHMS,		R32,36		2	2	2							
75	076-013	RESISTOR, CARBON FILM, 680K OHMS, 1/4W, 5%		R17			1	1							
76	062-693	RESISTOR, M.F., 20K OHMS, 1/8W, 1%		R71			1	1							
77	062-966	RESISTOR, M.F., 4.75K OHMS, 1/8W, 1%		R72			1	1							
78	062-979	RESISTOR, M.F., 7.87K OHMS, 1/8W, 1%		R73			1	1							
79	066-822	RESISTOR, CARBON FILM, 910 OHMS, 1/4W, 5%		R53			1	1							
80	058-340	RESISTOR, VAR., 1K OHMS, 3/4W, 10%		R1			1	1							
81	058-601	RESISTOR, VAR., 1K OHMS, 1/2W, 10%		R74			1	1							
82	066-818	RESISTOR, CARBON FILM, 470 OHMS, 1/4W, 5%		R52,64,77		8	3	2							

10-187



Assembly No. 1400130-04K. Color Framer PWA, No. 13, NTSC (Option)

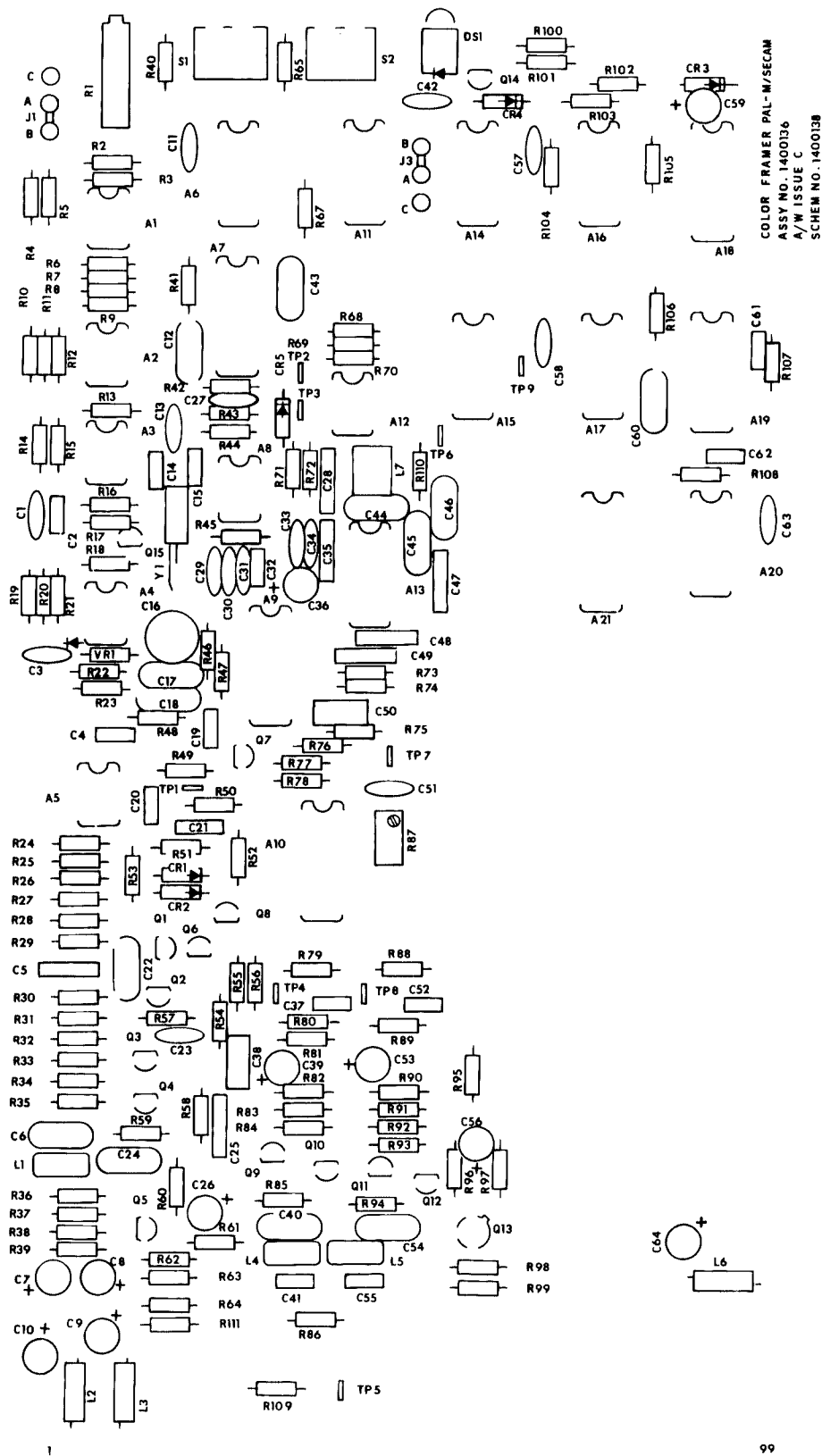


Schematic No. 1400132F.
Color Framer PWA, No. 13
NTSC (Option)

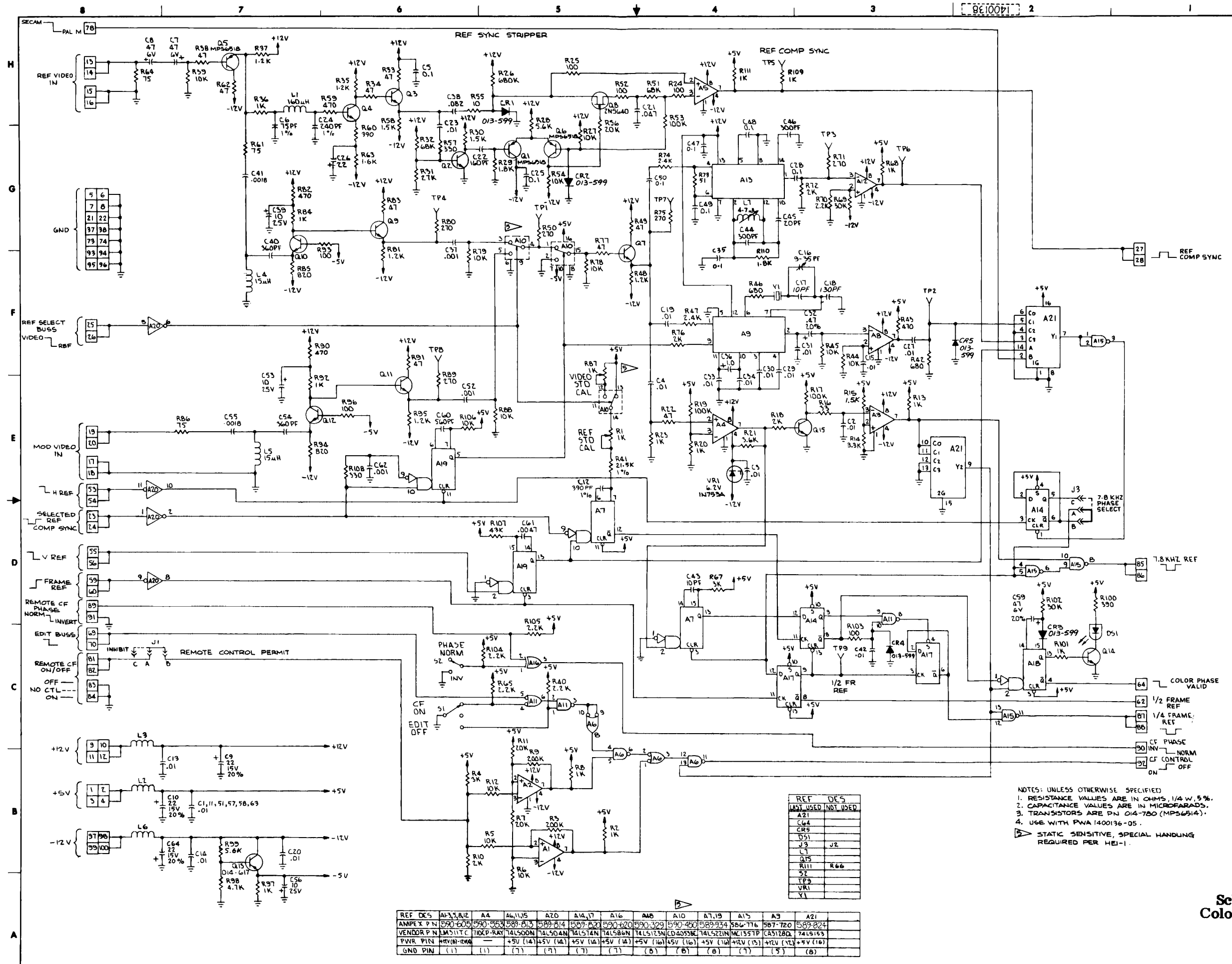
ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
					-01	-02	-03	-04	-05					
1					-01	-02	-03	-04	-05					
2	1400138		SCHEMATIC		A	B	C	D	F					
3	1400003-01		SHIELD		1	1	1	1	1					
4	1400004-01		HANDLE		1	1	1	1	1					
5	1374188-01		INDUCTOR FILTER	F2,3,6	3	3	3	3	3					
6	1400005-AN		LABEL		1	1	1	1	1					
7	017-223		CRYSTAL, 3.575611 MHZ	Y1				1	1					
8	017-177		CRYSTAL 3.575611 MHZ	Y1	1	1	1	-	-					
9	034-969		CAPACITOR, MICA, 43 PF, 5%	C17	1	1	1	-	-					
10	034-215		CAPACITOR, MICA, 10 PF, 5%	C43	1	1	1	-	-					
11	056-140		20 PF, 5%	C45	1	1	1	1	1					
12	034-285		75 PF, 1%	C6	1	1	1	1	1					
13	034-224		160 PF, 1%	C22	1	1	1	1	1					
14	034-543		240 PF, 1%	C24	1	1	1	1	1					
15	034-199		300 PF, 5%	C44,46	2	2	2	2	2					
16	034-934		360 PF, 5%	C40,54	2	2	2	2	2					
17	034-298		390 PF, 1%	C12	1	1	1	1	1					
18	034-929		560 PF, 5%	C60	1	1	1	1	1					
19	034-962		CAPACITOR, MICA, 33 PF, 5%	C18	1	1	1	-	-					
20	034-439		CAPACITOR, MICA, 130pF, 5%	C18				1	1					
21	034-215		CAPACITOR, MICA, 10pF, 5%	C17,43				2	2					
22														
23	037-591		CAPACITOR, TANT, 1uF, 35V, $\pm 20\%$	C36	1	1	1	1	1					
24	037-812		10uF, 25V, $\pm 20\%$	C39,53,56	3	3	3	3	3					
25	037-298		47uF, 6V	C7,8,59	3	3	3	3	3					
26	037-954		CAPACITOR, TANT, 22 uF, 15V, $\pm 20\%$	C9,10,26,64	4	4	4	4	4					
27														
28														
29														
30	069-103		CAPACITOR, POLY, .0047uF, 50V, $\pm 5\%$	C61	1	1	1	1	1					
31	069-112		.082 uF,	C38	1	1	1	1	1					
32	069-092		.047uF,	C21	1	1	1	1	1					
33	069-090		.001uF,	C37,52,62	3	3	3	3	3					
34	069-100		.01uF,	C2-4,14,15,19,20	7	7	7	7	7					
35	069-113		CAPACITOR, POLY, .1uF, 50V, $\pm 5\%$	C50	1	1	1	1	1					
36	069-100		CAPACITOR, POLY, .01uF, 50V, $\pm 5\%$	C2,4,14,15,19,20	7	7	7	7	7					
37														

AMPEX Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400136 SHEET 2	REV K									
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER										
				-01	-02	-03	-04	-05						
38														
39	064-116	CAPACITOR, CER., .01uF, 50V -20% +80% C1,3,11,13,23,27,29,30,31 33,34,42,51,57,58,63		16	16	16	16	16						
40														
41														
42														
43	030-095	CAPACITOR, MONO, .1uF, 25V C5,25,28,35,47-49		7	7	7	7	7						
44	064-309	CAPACITOR, MONO, .47uF, 100V 20% C32		1	1	1	1	1						
45	069-110	CAPACITOR, POLY, .0018uF, 50V, 5% C41,55		2	2	2	2	2						
46	038-254	CAPACITOR, VARIABLE, 9-35PF, N650 C16		1	1	1	1	1						
47														
48														
49	051-905	INDUCTOR, FIXED, 15uH, ± 10% L4,5		2	2	2	2	2						
50	1374388-AH	↕ ↕ 4.7uH, VARIABLE L7		1	1	1	1	1						
51	068-062	INDUCTOR, FIXED, 160uH, ± 5% L1		1	1	1	1	1						
52														
53	581-619	DIODE, LED, GRN (PCL-1906) DS1		1	1	1	1	1						
54	013-599	DIODE, (1N4531) CR1-5		5	5	5	5	5						
55	013-257	DIODE, ZENER, 6.2V (1N753A) VR1		1	1	1	1	1						
56	581-580	DIODE, LED, GRN DS1		1	1	1	1	1						
57	280-130	TRANSISTOR, SPACER REF: DS1		1	1	1	1	1						
58														
59	590-605	INTEGRATED CIRCUIT, LM311TC 2 A1-3,5,8,12		6	6	6	6	6						
60	590-553	710CP-RAY A4		1	1	1	1	1						
61	589-813	74LS00N A6,11,15		3	3	3	3	3						
62	589-814	74LS04N A20		1	1	1	1	1						
63	589-820	74LS74N A14,17		2	2	2	2	2						
64	590-620	74LS86N 2 A16		1	1	1	1	1						
65														
66	590-329	74LS123N 2 A18		1	1	1	1	1						
67	590-450	CD4053BE 1 2 A10		1	1	1	1	1						
68	589-934	74LS221N 2 A7,19		2	2	2	2	2						
69	586-776	MC1357P A13		1	1	1	1	1						
70	587-719	INTEGRATED CIRCUIT, CA3126Q A9		1	1	1	1	1						
71	589-824	INTEGRATED CIRCUIT, 74LS153 2 A21		1	1	1	1	1						
72	587-720	INTEGRATED CIRCUIT, CA3128Q A9												
73	066-810	RESISTOR, CARBON FILM, 10 OHMS, 1/4W, 5% R55		1	1	1	1	1						
74	066-834	33 OHMS R16		1	1	1	1	1						
75	066-938	47 OHMS R22,33,34,38,49, 62,77,83,91		9	9	9	9	9						
76	066-811	51 OHMS R73		1	1	1	1	1						
77	076-045	75 OHMS R61,64,86		3	3	3	3	3						
78	066-812	100 OHMS R24,25,52,93,96, 103		7	7	7	6	6						
79	066-814	270 OHMS R50,71,80,89,75,		5	5	5	5	5						
80	066-838	330 OHMS R57,108		2	2	2	2	2						
81	066-816	390 OHMS R60,100		2	2	2	2	2						
82	066-818	RESISTOR, CARBON FILM, 470 OHMS, 1/4W, 5% R43,59,82,90		4	4	4	4	4						

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739		LIST OF MATERIALS		LM-1400136 SHEET 3		REV K					
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01	-02	-03	-04	-05							
83	066-821	RESISTOR, CARBON FILM, 820 OHMS, 1/4W, 5%	R85,94	2	2	2	2	2							
84	066-665	1K OHMS	R2,8,13,20,23,36,68,84,92,97,101,109,111	13	13	13	13	13							
85	066-715	1.2K OHMS	R35,37,48,81,95	5	5	5	5	5							
86	066-824	1.5K OHMS	R30,58,15	3	3	3	3	3							
87	066-825	1.6K OHMS	R63	1	1	1	1	1							
88	066-675	1.8K OHMS	R29,110	2	2	2	2	2							
89	066-826	2K OHMS	R10,18,72,76	4	4	4	4	4							
90	066-689	2.2K OHMS	R40,65,104,105,70	5	5	5	5	5							
91	066-928	2.4K OHMS	R47,74	2	2	2	2	2							
92	066-667	3K OHMS	R4,67	2	2	2	2	2							
93	066-720	3.3K OHMS	R14	1	1	1	1	1							
94	066-863	3.6K OHMS	R21	1	1	1	1	1							
95	066-668	4.7K OHMS	R98	1	1	1	1	1							
96	066-718	5.6K OHMS	R28,99	2	2	2	2	2							
97	066-830	10K OHMS	R6,5,12,27,39,44,45,54,78,79,88,106	12	12	12	12	12							
98	066-873	20K OHMS	R7,11,56	3	3	3	3	3							
99	066-866	27K OHMS	R31	1	1	1	1	1							
100	066-846	30K OHMS	R69,102	2	2	2	2	2							
101	076-009	68K OHMS	R32,51	2	2	2	2	2							
102	066-849	100K OHMS	R17,19,53	3	3	3	3	3							
103	066-853	200K OHMS	R3,9	2	2	2	2	2							
104	076-013	RESISTOR, CARBON FILM, 680 OHMS, 1/4W, 5%	R26	3	3	3	3	3							
105	066-848	RESISTOR, CARBON FILM, 43K OHMS, 1/4W, 5%	R107	1	1	1	1	1							
106															
107	062-800	RESISTOR, METAL FILM, 21.5K OHMS, 1/8W, 1%	R41	1	1	1	1	1							
108	066-840	RESISTOR, C.F., 680 OHM, 1/4W, 5%	R42,46					2	2						
109	283-105	SPACER, UNTHRD, PLAIN, .140 I.D., .250 O.D., .125 LG		1	1	1	1	1							
110	502-002	WASHER, LOCK, HELICAL SPRING, #4		1	1	1	1	1							
111															
112	058-340	RESISTOR, VAR., 1K, 3/4W, 10%	R1			1	1	1							
113	058-601	RESISTOR, VAR., 1K, 1/2W, 10%	R87			1	1	1							
114	187-259	TERMINAL TEST POINT	TP1-2										9		
115	014-617	TRANSISTOR, (CD500)	Q13	1	1	1	1	1							
116	014-780	TRANSISTOR, (MPS 6514)	Q2-4,7,9-12,14,15	10	10	10	10	10							
117	014-781	(MPS 6518)	Q1,5,6	3	3	3	3	3							
118	580-381	TRANSISTOR, (2N5640)	Q8	1	1	1	1	1							
119															
120															
121	435-122	SMALL CRYSTAL CLIP	REF Y1	1	1	1	1	1							
122	460-011	RIVET, SEMI-TUBULAR	REF Y1	2	2	2	2	2							
123	120-967	SWITCH, SPDT	S2				1	1							
124	119-438	SWITCH, SPDT CENTER OFF	S1				1	1							
125	471-063	SCREW, MACH, PAN HD, XREC DR, #4-40 X .438 LG					1	1							



Assembly No. 1400136-05K. Color Framer PWA, No. 13, PAL-M (Option)



Schematic No. 1400138F.
Color Framer PWA, No. 13,
PAL-M (Option)

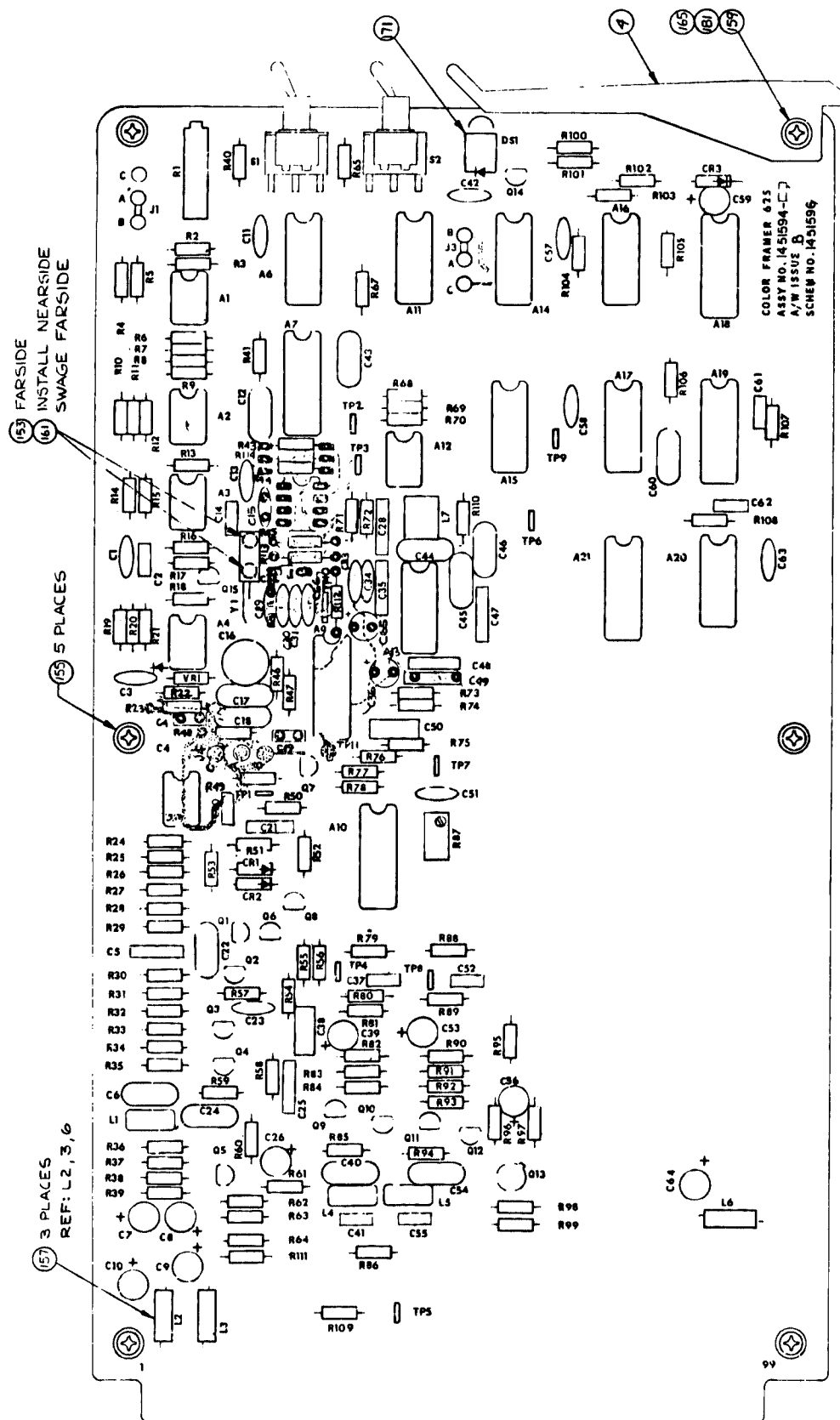
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01	-02										
1				-01	-02										
2	1451596	SCHEMATIC		(-)	A										
3	1400003-01	SHIELD		1											
4	1400004-01	HANDLE		1											
5	1374189-01	INDUCTOR, FILTER L2,3,6		3											
6	1400005-AH	LABEL		1											
7	1451562-01	PWA, FIGG+BACK, BIAS TRAP SWITCH AND AUDIO MUTE CONTROL		-											
8															
9															
10															
11	064-116	CAPACITOR, CER., .01uF, 50V, $\pm 20\%$ C1,3,11,13,23,29,30,33,34,42,51,57,58,63		14	-										
12	064-116	CAPACITOR, CER., .01uF, 50V, $\pm 20\%$ C1,3,11,13,23,29,30,33,34,42,51,57,58,63,71,72		-	16										
13	064-653	CAPACITOR, CER., .1uF, 50V, $\pm 20\%$ C67-70		-	4										
14															
15	034-215	CAPACITOR, MICA, 10pF, 5% C17,43		2	2										
16	056-140	20pF, 5% C45		1											
17	034-285	75pF, 1% C6		1	1										
18	034-224	160pF, 1% C22		1	1										
19	034-543	240pF, 1% C24		1	1										
20	034-199	300pF, 5% C44,46		2	2										
21	034-934	360pF, 5% C40,54		2	2										
22	034-298	390pF, 1% C12		1	1										
23	034-929	560pF, 5% C60		1	1										
24	034-183	CAPACITOR, MICA, 62pF, 500V, 5% C18		1	1										
25															
26															
27															
28	030-095	CAPACITOR, MONO., .1uF, 25V C5,25,28,35,47-49		7	7										
29															
30															
31															
32	069-103	CAPACITOR, POLY., .0047uF, 50V, $\pm 5\%$ C61		1	1										
33	069-112	.082uF, 50V, $\pm 5\%$ C38		1	1										
34	069-092	.047uF, 50V, $\pm 5\%$ C21		1	1										
35	069-090	.001uF, 50V, $\pm 5\%$ C31,37,52,52		4	4										
36	069-113	CAPACITOR, POLY., .1uF, 50V, $\pm 5\%$ C50		1	1										
37															

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1451594	SHEET 2 OF 5	REV A						
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER										
				-01	-02									
38	069-100	CAPACITOR, POLY., .01uF, 50V, $\pm 5\%$	C2,4,14,15,19, 20,32,66	9	8									
39	069-110	CAPACITOR, POLY., .0019uF, 50V, 5%	C41,55	2	2									
40														
41														
42														
43	037-298	CAPACITOR, TANT., 47uF, 6V	C7,8,59	3	3									
44	037-812	<div><div>↑</div><div>↑</div><div>10uF, 25V, $\pm 20\%$</div></div>	C39,53,56	3	3									
45	037-591	<div><div>↓</div><div>↓</div><div>1uF, 35V, $\pm 20\%$</div></div>	C36,65	2	2									
46	037-954	CAPACITOR, TANT., 22uF, 15V	C9,10,26,64	4	4									
47	037-726	CAPACITOR, TANT., 3.3uF, 15V, $\pm 10\%$	C73,74	1	2									
48														
49														
50	038-248	CAPACITOR, VARIABLE, 15-60pF, 100V	C16	1	1									
51														
52														
53														
54	017-211	CRYSTAL, 4.43361875 MHz	Y1	1	1									
55														
56														
57	013-599	DIODE, 1N4153	CR1,2,3	3	3									
58	581-619	DIODE, LED, GRN	DS1	1	1									
59	013-257	DIODE, ZENER, 6.2V, 1W53A	VR1	1	1									
60														
61														
62	1374388-AH	INDUCTOR, FIXED, 4.7uH, VAR.	L7	1	1									
63	051-905	INDUCTOR, FIXED, 15uH, $\pm 10\%$	L4,5	2	2									
64	068-062	INDUCTOR, FIXED, 160uH, $\pm 5\%$	L1	1	1									
65														
66	587-510	INTEGRATED CIRCUIT, 74LS00N	A6,11,15,25	-	4									
67	587-537	INTEGRATED CIRCUIT, 74LS221N	A7,19,23,26	-	4									
68	587-775	INTEGRATED CIRCUIT, 74LS112N	A24	-	1									
69	587-891	INTEGRATED CIRCUIT, LM311TC	A1-3,5,9,12	4	5									
70	587-890	<div><div>↑</div><div>↑</div><div>710CP-RAY</div></div>	A4	1	1									
71	587-510	<div><div>↑</div><div>↑</div><div>74LS00N</div></div>	A6,11,15	3	-									
72	587-533	<div><div>↑</div><div>↑</div><div>74LS04N</div></div>	A20	1	1									
73	587-387	<div><div>↑</div><div>↑</div><div>74LS74N</div></div>	A14,17	2	2									
74	587-746	<div><div>↑</div><div>↑</div><div>74LS96N</div></div>	A16	1	1									
75	587-535	<div><div>↑</div><div>↑</div><div>74LS123N</div></div>	A18	1	1									
76	587-723	<div><div>↑</div><div>↑</div><div>CD4053BE</div></div>	A10	1	1									
77	587-537	<div><div>↑</div><div>↑</div><div>74LS221N</div></div>	A7,19	2	-									
78	586-776	<div><div>↑</div><div>↑</div><div>MC1357P</div></div>	A13	1	1									
79	587-777	<div><div>↑</div><div>↑</div><div>74LS153</div></div>	A21	1	1									
80	587-720	INTEGRATED CIRCUIT, CA3129Q	A9	1	1									
81	587-947	INTEGRATED CIRCUIT, 74LS14N	A22	-	1									
82														

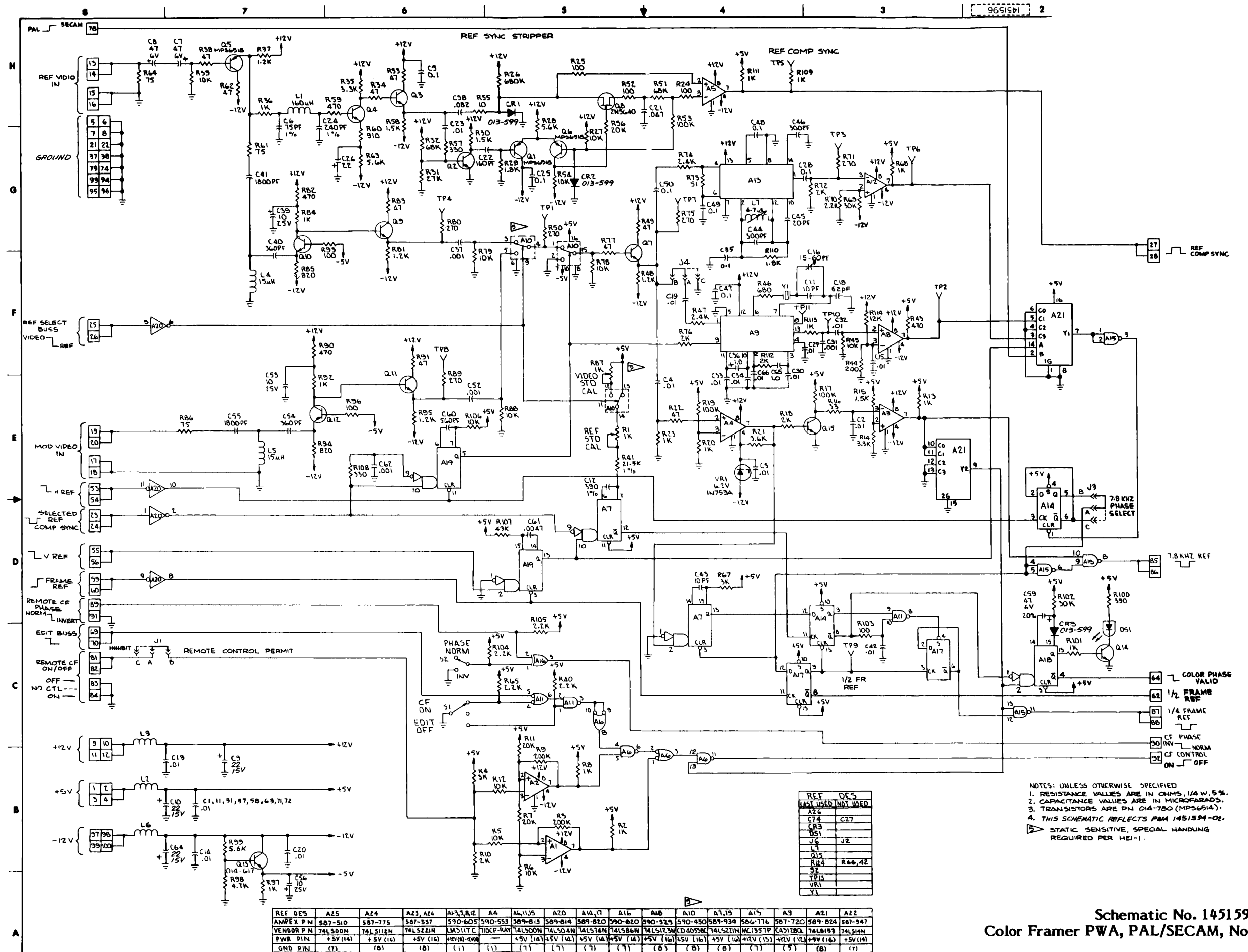
AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		ORDER NO. 92739	LIST OF MATERIALS	LM-1451594	REV A							
						SHEET 3 OF 5								
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER										
				-01	-02									
83														
84														
85														
86														
87														
88														
89	066-821	RESISTOR, C.F., 820 OHMS, 1/4W, 5%	R85,94	2	2									
90	066-665	12K OHMS, 1/4W, 5%	R114	1	1									
91	066-826	2K OHMS, 1/4W, 5%	R10,18,72,76,112	5	5									
92	066-689	2.2K OHMS, 1/4W, 5%	R40,65,70,104,105	5	5									
93	066-928	2.4K OHMS, 1/4W, 5%	R47,74	2	2									
94	066-873	20K OHMS, 1/4W, 5%	R7,11,56	3	3									
95	066-863	3.6K OHMS, 1/4W, 5%	R21	1	1									
96	066-668	4.7K OHMS, 1/4W, 5%	R18	1	1									
97	066-830	10K OHMS, 1/4W, 5%	R5,6,12,27,39,45,54,78,79,89,106	11	-									
98	066-846	30K OHMS, 1/4W, 5%	R69,102	2	2									
99	076-009	68K OHMS, 1/4W, 5%	R32,51	2	-									
100	066-849	100K OHMS, 1/4W, 5%	R17,19,53	3	3									
101	066-853	200K OHMS, 1/4W, 5%	R3,9	2	2									
102	066-667	3K OHMS, 1/4W, 5%	R4,67	2	2									
103	066-675	1.9K OHMS, 1/4W, 5%	R29,110	2	2									
104	076-013	RESISTOR, C.F., 620K OHMS, 1/4W, 5%	R26	1	1									
105	066-830	RESISTOR, C.F., 10K OHMS, 1/4W, 5%	R5,6,12,27,39,45,54,78,79,89,106,119-124	-	17									
106	076-009	RESISTOR, C.F., 68K OHMS, 1/4W, 5%	R32,51,115-118	-	6									
107														
108														
109	066-810	RESISTOR, C.F., 10 OHMS, 1/4W, 5%	R55	1	1									
110	066-834	33 OHMS, 1/4W, 5%	R16	1	1									
111	066-938	47 OHMS, 1/4W, 5%	R22,33,34,38,49,62,77,83,91	6	9									
112	066-911	51 OHMS, 1/4W, 5%	R73	1	1									
113	076-045	75 OHMS, 1/4W, 5%	R61,64,86	3	3									
114	066-812	100 OHMS, 1/4W, 5%	R24,25,52,93,96,103	6	6									
115	066-839	330 OHMS, 1/4W, 5%	R57,109	2	2									
116	066-822	910 OHMS, 1/4W, 5%	R60	1	1									
117	066-718	5.6K OHMS, 1/4W, 5%	R28,63,99	3	3									
118	066-662	RESISTOR, C.F., 200 OHMS, 1/4W, 5%	R44	1	1									
119														
120														
121														
122														
123	066-866	RESISTOR, C.F., 27K OHMS, 1/4W, 5%	R31	1	1									
124	066-849	43K OHMS, 1/4W, 5%	R107	1	1									
125	066-818	470 OHMS, 1/4W, 5%	R43,59,92,99	4	4									
126	066-814	270 OHMS, 1/4W, 5%	R50,71,75,89,99	5	5									
127	066-665	RESISTOR, C.F., 1K OHMS, 1/4W, 5%	R2,8,13,20,23,36,68,84,92,97,101,109,111	14	14									

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM- 1451594	REV. A							
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER ASSEMBLY NUMBER										
				-01	-02									
128														
129														
130														
131														
132	066-715	RESISTOR, C.F., 1.2K OHMS, 1/4W, 5%	R37,48,81,95	4	4									
133	066-720	3.3K OHMS, 1/4W, 5%	R14,35	2	2									
134	066-816	390 OHMS, 1/4W, 5%	R100	1	1									
135	066-824	1.5K OHMS, 1/4W, 5%	R15,30,58	3	3									
136	066-840	RESISTOR, C.F., 680 OHMS, 1/4W, 5%	R46	1	1									
137														
138														
139														
140	052-800	RESISTOR, M.F., 21.5K OHMS, 1/8W, 1%	R41	1	1									
141														
142														
143														
144	058-340	RESISTOR, VAR., 1K OHMS, 3/4W, 10%	R1	1	1									
145	058-601	RESISTOR, VAR., 1K OHMS, 1/2W, 10%	R87	1	1									
146														
147														
148														
149	143-981	JACK, P.C. TIP	J1,3,4,(A,B,C)	9	-									
150	143-981	JACK, P.C. TIP	J1,3,4,5,6,(A,B,C)	-	17									
151	602-044	PLUG, SHORTING	J1,3,4	3	-									
152	602-044	PLUG, SHORTING	J1,3,4,5,6	-	5									
153	460-011	RIVET, SEMI-TUBULAR		2	2									
154														
155	474-500	SCREW, MACH., PAN HD., XREC. 4-40 X .312 LG		5	5									
156														
157		SLEEVING, SHRINK, CLEAR	REF: L2,3,5	1/R	A/R									
158														
159	293-105	SPACER, UNTHREADED, PLAIN, .140 I.D., .250 O.D., .125 LG		1	1									
160														
161	435-122	SMALL CRYSTAL CLIP		1	1									
162														
163	120-967	SWITCH, TOGGLE, SPDT	S2	1	1									
164	119-438	SWITCH, SPDT CENTER OFF	S1	1	1									
165	471-063	SCREW, MACH., PAN HD., XREC DR., #4-40 X .439 LG		1	1									
166														
167														
168	187-259	TERMINAL, TEST POINT	TP 1-11	11	11									
169														
170														
171	280-130	TRANSISTOR, SPACER	REF: DS1	1	1									
172														

[illegible]



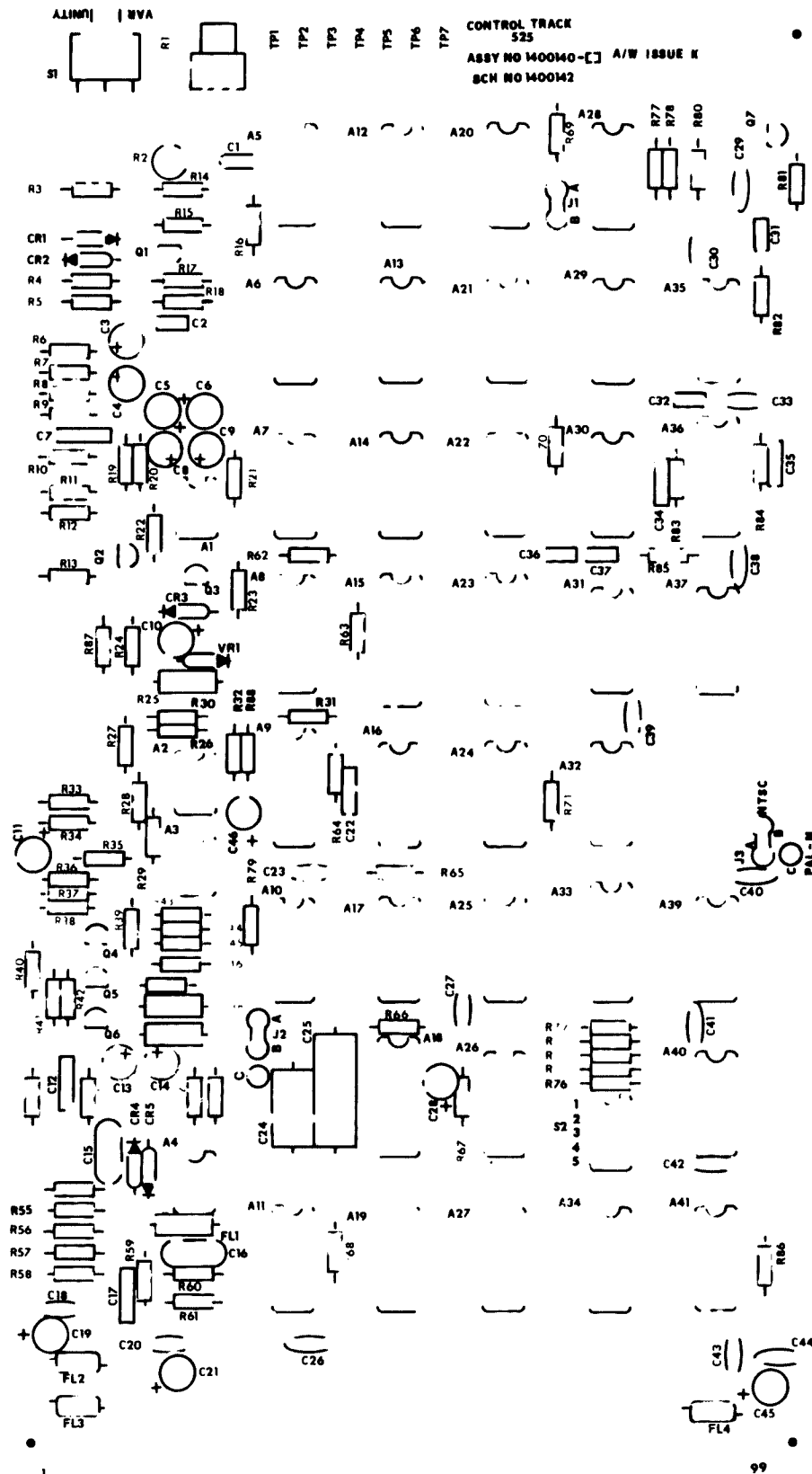
Assembly No. 1451594-02A. Color Framer PWA, No. 13, PAL/SECAM



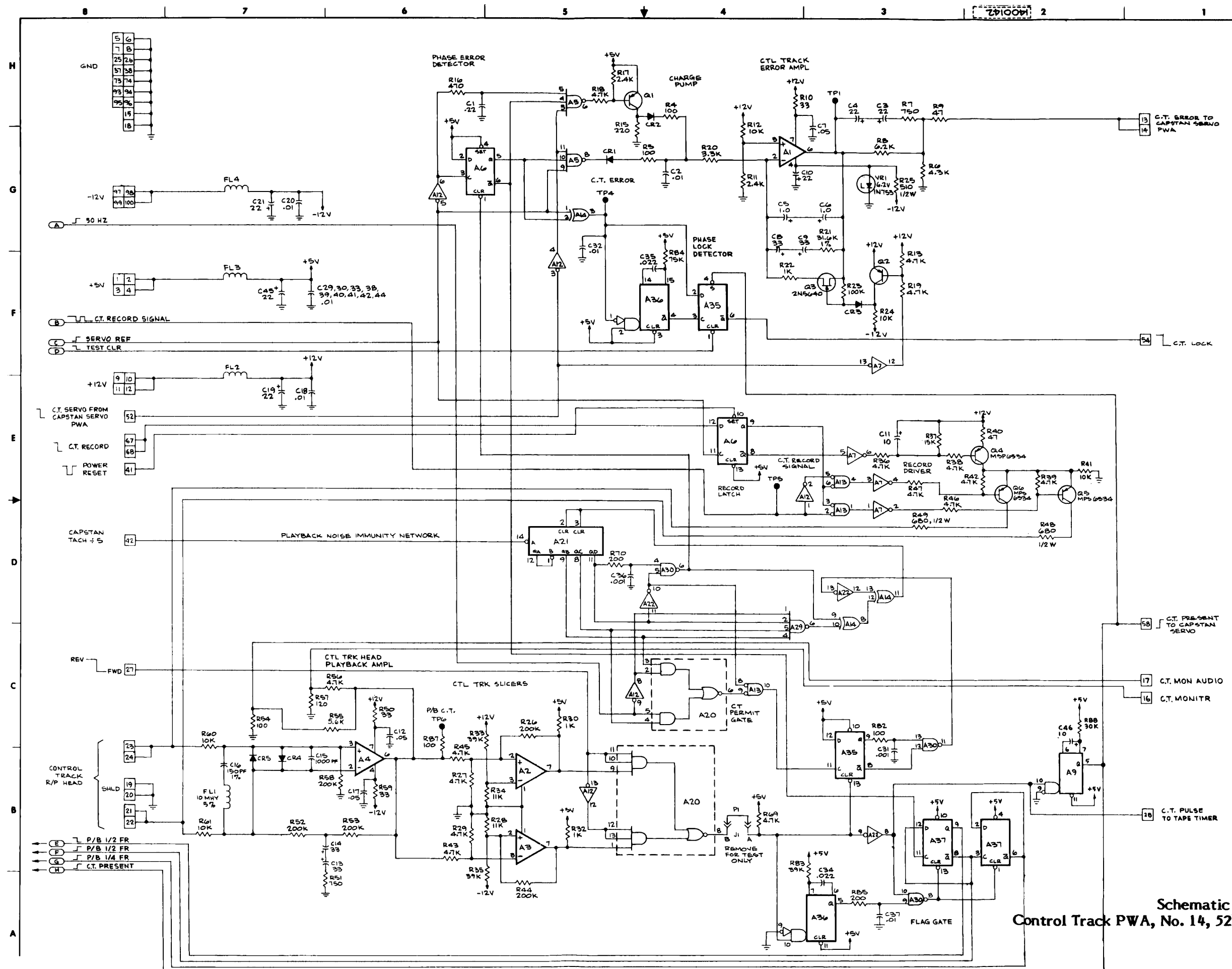
Schematic No. 1451596A.
Color Framer PWA, PAL/SECAM, No. 13

ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER								
				-01	-02	-03	-04	-05	-06	-07	-08	-09
1				-02	03	-03	-04	-05	-06	-07	-08	
2												
3	1400142	SCHEMATIC		A	B	C	D	E	G	H	J	M
4	1374188-01	FILTER INDUCTOR	FL2,3,4	3	3	3	3	3	3	3	3	3
5	034-950	CAPACITOR, MICA, 1000pF, 500V, 5%	C15	1	1	1	1	1	1	1	1	1
6	037-591	TANT, 1uF, 35V	C5,6	2	2	2	2	2	2	2	2	2
7	037-812	10uF, 25V	C11,28	2	2	2	2	-	-	-	-	-
8	037-954	22uF, 15V	C3,4,10,19, 21,45	6	6	6	6	6	6	6	6	6
9	037-963	TANT, 33uF, 10V	C8,9,13,14	4	4	4	4	4	4	4	4	4
10	037-812	TANT, 10uF, 25V	C11,28,46					3	3	3	3	3
11												
12												
13	064-116	CERAMIC, .01uF, 50V	C18, C29,30,20,33,38,39, C23, 40,41,42,43,44,26,27	15	15	15	15	15	15	15	15	15
14	064-307	MONO, .22uF, 100V	C1	1	1	1	1	1	1	1	1	1
15	055-810	POLYCARBONATE, .1uF, 100V	C24	1	1	1	1	1	1	1	1	1
16												
17	064-569	CERAMIC, .05uF, 50V	C7,12,17	3	3	3	3	3	3	3	3	3
18	069-090	POLYESTER, .001uF, 50V	C31,36	2	2	2	2	2	2	2	2	2
19												
20	069-097	.022uF, 50V	C22,34,35	3	3	3	3	3	3	3	3	3
21	069-100	POLYESTER, .01uF, 50V	C2,32,37	3	3	3	3	3	3	3	3	3
22												
23	069-042	POLYCARBONATE, .56 uF, 100V, 1%	C25	1	1	1	1	1	1	1	1	1
24	034-220	CAPACITOR, MICA, 150pF, 1%	C16	1	1	1	1	1	1	1	1	1
25	013-257	DIODE, ZENER, 6.2V, 1N753A	VR1	1	1	1	5	5	5	5	5	5
26	013-599	DIODE, SIGNAL, 1N4531	CR1,2,3,5,4	5	5	5	5	5	5	5	5	5
27	1400319	PROM, FINE	A15	-01	-01	-01	-01	-01	-01	-01	-01	-01
28	540-055	INDUCTOR, 10 MHY, 10%	FL1	1	1	1	1	1	1	1	1	1
29	1400318	PROM, COARSE	A23	-01	-01	-01	-01	-02	-02	-02	-02	-02
30	589-831	I.C. 74LS175	A8	1	1	1	1	1	1	1	1	1
31	590-536	INTEGRATED CIRCUIT, 7406N	A7	1	1	1	1	1	1	1	1	1
32	589-816	74LS10N	A5,10,26,41	4	4	4	4	4	4	4	4	4
33	589-820	74LS74N	A6,17,25,28,32, 35,37,39						8	8	8	8
34	587-387	74LS74N	A6,17,25,28, 32,35,37,38,39	9	9	9	9	9	-	-	-	-
35	589-813	74LS00N	A24,27,30	3	3	3	3	3	3	3	3	3
36	590-548	INTEGRATED CIRCUIT, 74LS51N	A20	1	1	1	1	1	1	1	1	1

AMPEX		CODE IDENT NO.		LIST OF MATERIALS		LM-1400140		SHEET 2		REV					
PART NUMBER		DESCRIPTION		REF DESIGN		QTY REQD PER DASH NUMBER									
ITEM NO.						-01	-02	-03	-04	-05	-06	-07	-08	-09	
37	589-934	INTEGRATED CIRCUIT, 74LS221N	1	A18,36		2	2	2	2	2	2	2	2	2	
38	589-814	74LS04N		A12,19,22,34		4	4	4	4	4	4	4	4	4	
39	590-617	LM318N		A4		1	1	1	1	1	1	1	1	1	
40	590-620	74LS86N		A14,40		2	2	2	2	2	2	2	2	2	
41	590-332	74LS02N		A11,13,		2	2	2	2	2	2	2	2	2	
42	590-600	74LS93N		A21		1	1	1	1	1	1	1	1	1	
43	589-825	74LS157N		A33,		1	1	1	1	1	1	1	1	1	
44	590-611	LM741TC		A1		1	1	1	1	1	1	1	1	1	
45	589-818	74LS20N		A29		1	1	1	1	1	1	1	1	1	
46	590-329	74LS123N	1	A9		1	1	1	1	1	1	1	1	1	
47															
48	590-605	LM311TC	1	A2,3		2	2	2	2	2	2	2	2	2	
49															
50	589-935	INTEGRATED CIRCUIT 74LS393	1	A16,31		2	2	2	2	2	2	2	2	2	
51															
52	041-343	RESISTOR, C.C., 680 OHM, 1/2W, 5%		R48,49		2	2	2	2	2	2	2	2	2	
53	041-404	C.C., 510 OHM, 1/2W, 5%		R25		1	1	1	1	1	1	1	1	1	
54	075-203	VARIABLE 47K, 1 TURN		R1		1	1	1	1	1	1	1	1	1	
55	058-610	VARIABLE, 20K, 1/2W, 1T		R2		1	1	1	1	1	1	1	1	1	
56															
57	062-797	M.F., 31.6K, 1/8W, 1%		R21		1	1	1	1	1	1	1	1	1	
58	066-831	C.F., 11K, 1/4W, 5%		R28,34								2	2	2	
59	066-661	C.F., 120 OHM, 1/4W, 5%		R57		1	1	1	1	1	1	1	1	1	
60	066-662	200 OHM		R70,85		2	2	2	2	2	2	2	2	2	
61	066-663	220 OHM		R15,71,63		3	3	3	3	3	3	3	3	3	
62	066-665	1K		R22,30,32		3	3	3	3	3	3	3	3	3	
63	066-668	4.7K	R3,19,13,18,14,27,28,29,31,34,43,45,47,74,46,58,36,69,72,73,75,76,77,38,39,42		26	26	26	26	26	26	26	-	-	-	
64	066-928	2.4K		R11,17,78		3	3	3	3	3	3	3	3	3	
65	066-720	3.3K		R20		1	1	1	1	1	1	1	1	1	
66	066-812	100 OHM		R4,5,65,67,82,68,87,86,54		8	8	8	8	8	8	8	8	8	
67	066-818	470 OHM		R16		1	1	1	1	1	1	1	1	1	
68	066-820	750 OHM		R7,51		2	2	2	2	2	2	2	2	2	
69	066-828	4.3K		R6		1	1	1	1	1	1	1	1	1	
70	066-830	10K		R12,24,41,60,61		5	5	5	5	5	5	5	5	5	
71	066-834	33 OHM		R10, ,50,59		3	3	3	3	3	3	3	3	3	
72	066-846	30K		R64,66,88						3	3	3	3	3	
73	066-843	6.2K		R8		1	1	1	1	1	1	1	1	1	
74	066-846	30K		R64,66		2	2	2	2	-	-	-	-	-	
75	066-849	100K		R23		1	1	1	1	1	1	1	1	1	
76	066-853	200K		R26,44,52,53,58		5	5	5	5	5	5	5	5	5	
77	066-856	15K		R37		1	1	1	1	1	1	1	1	1	
78	066-860	39K		R ,35,33,83		3	3	3	3	3	3	3	3	3	
79	066-816	RESISTOR, C.F., 390 OHM, 1/4W, 5%		R81		1	1	1	1	1	1	1	1	1	
80	066-668	RESISTOR, C.F., 4.7K OHM, 1/4W, 5%		R3,13,14,18,19,27,29,31,36,38,39,42,43,45,46,47,56,69,72-77								24	24	24	

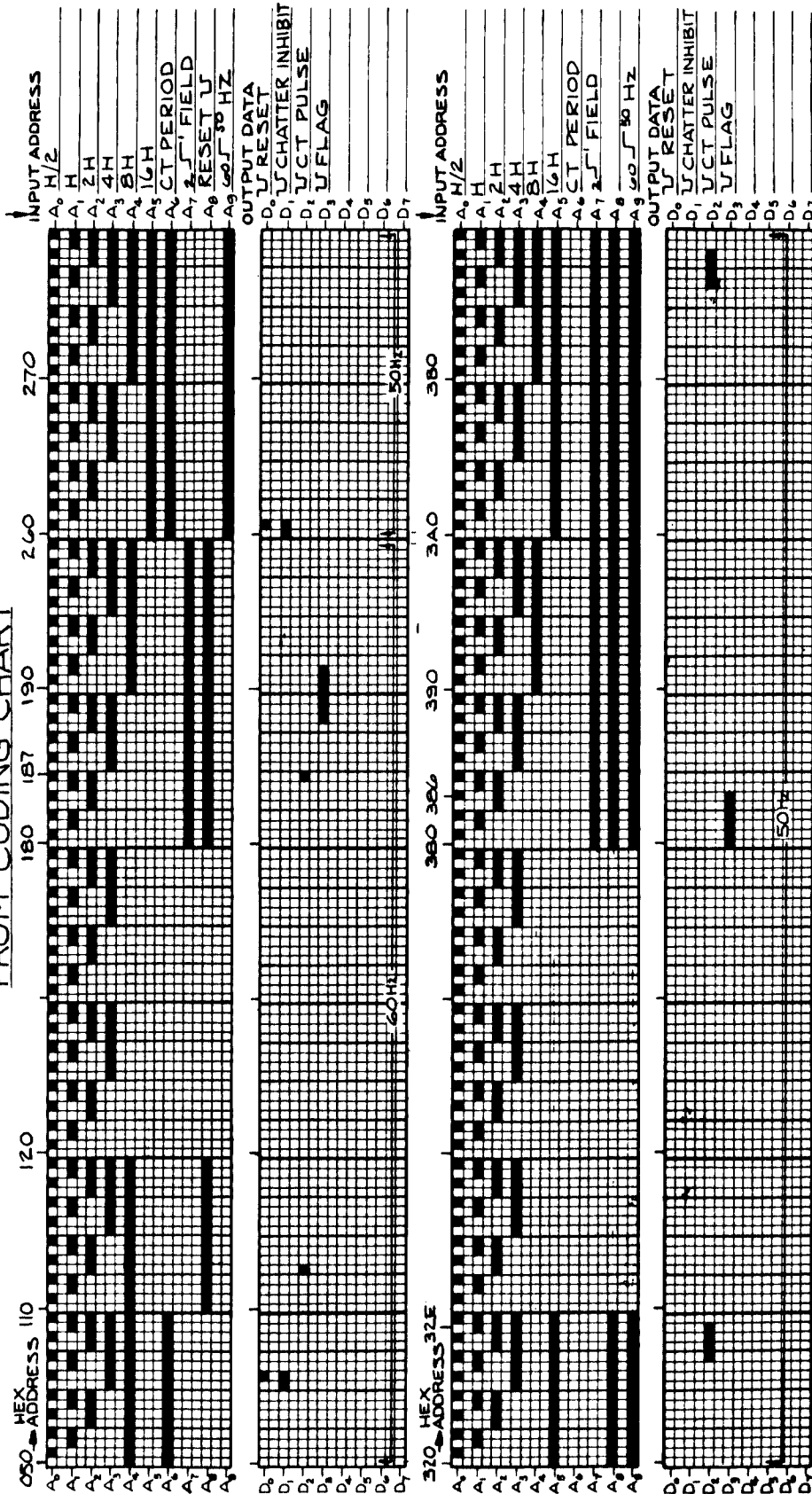


Assembly No. 1400140-09U. Control Track PWA, No. 14, 525 Line (Option)



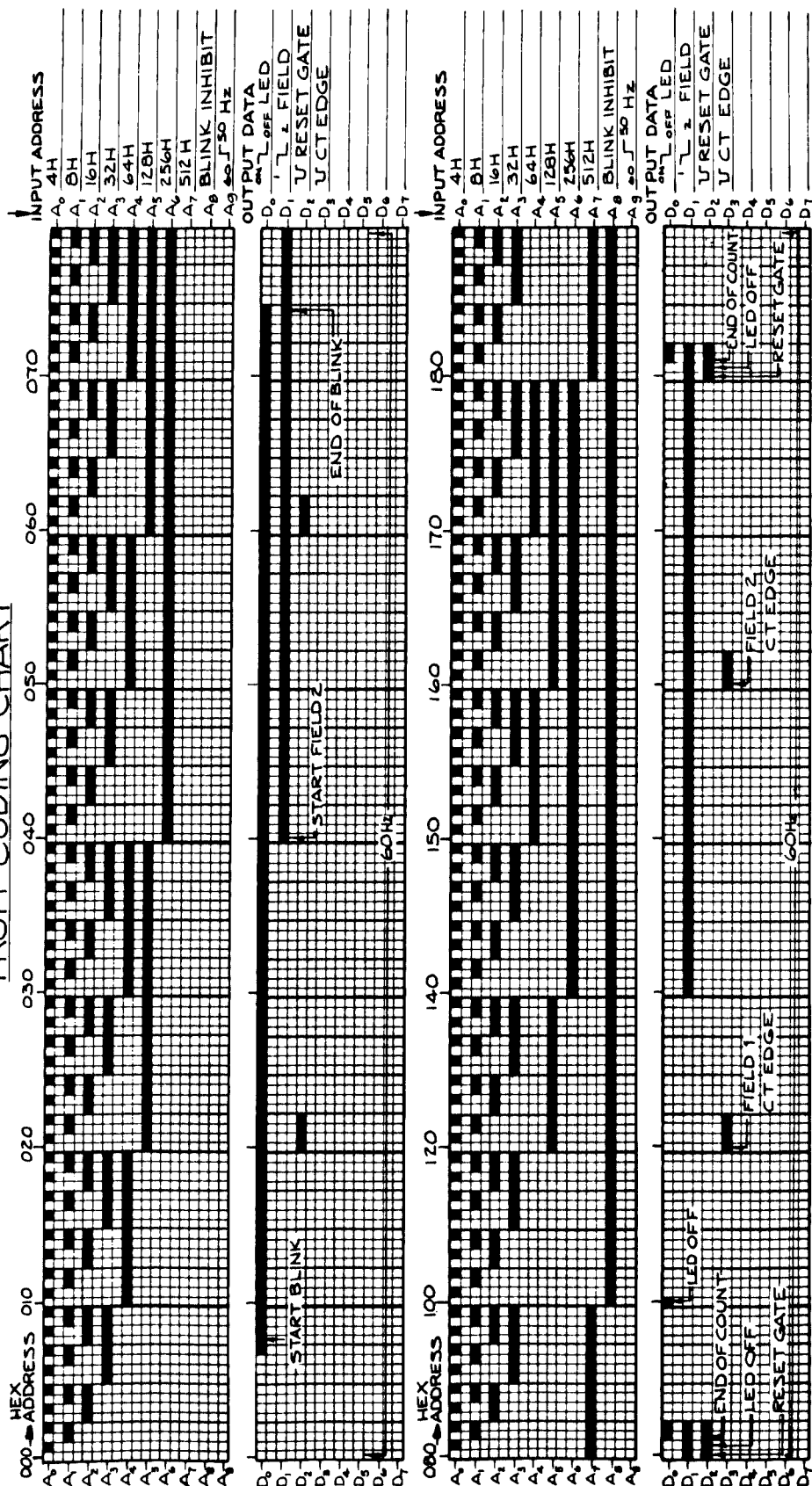
Schematic No. 1400142N.
Control Track PWA, No. 14, 525 Line (Option)
(Sheet 2 of 2)

PROM CODING CHART



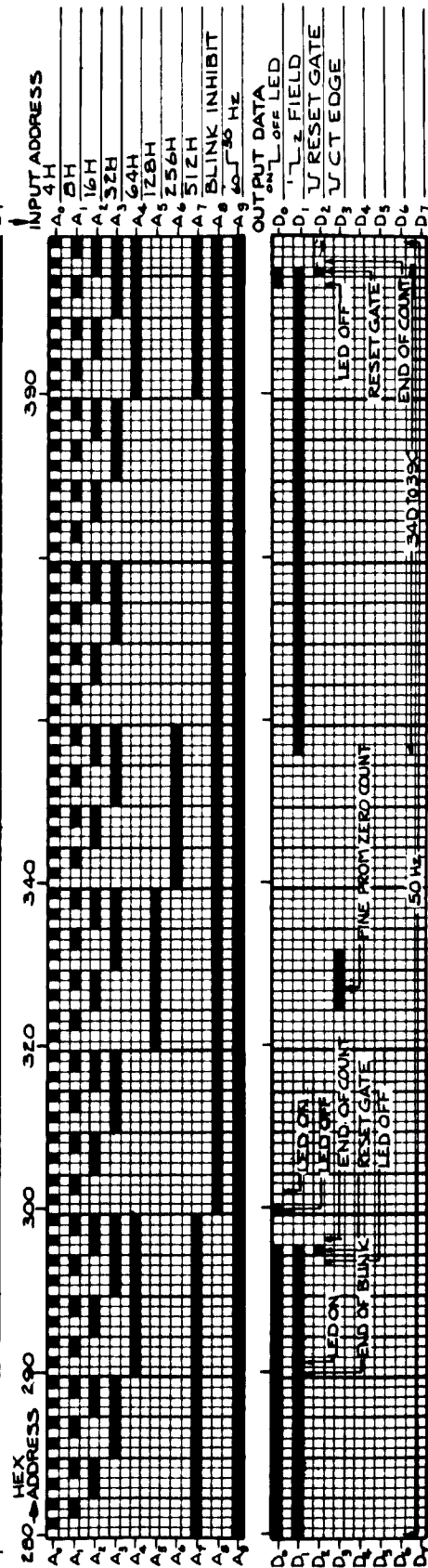
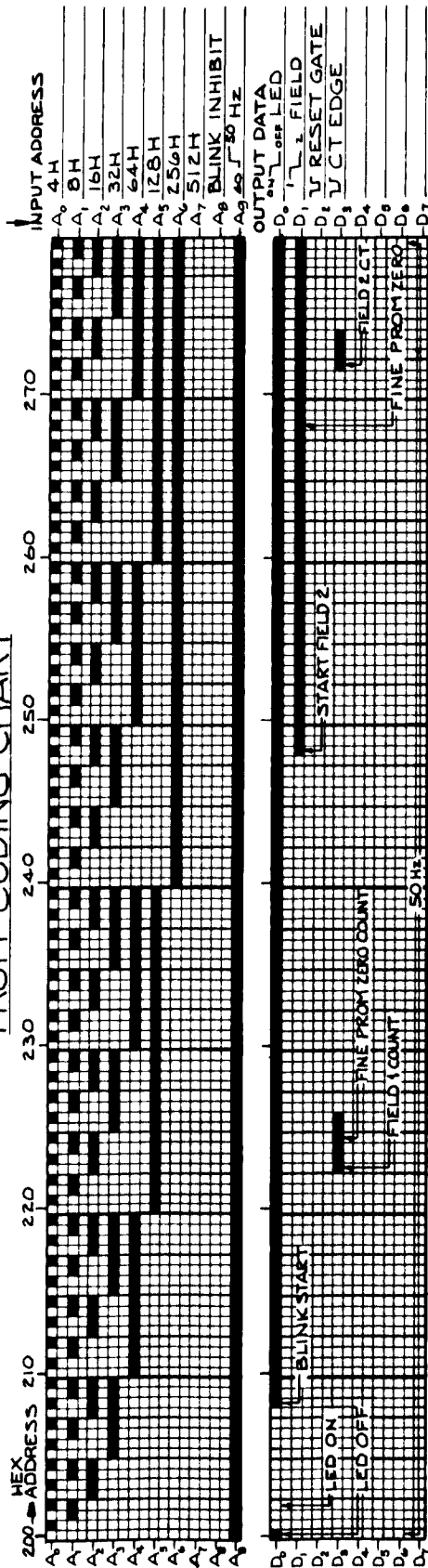
SCHEMATIC NO. 14-00142
 SCHEMATIC REF NO. A15
 NEXT ASSEMBLY NO. 14-00140
 PROM NO. / PART NO. 1400319-01

PROM CODING CHART



SCHEMATIC NO. 1400142
 SCHEMATIC REF. NO. A23(A26)
 NEXT ASSEMBLY NO. 1400140
 PROM NO./PART NO. 1400318-01

PROM CODING CHART



SCHEMATIC NO. 1400142 (1400145)
SCHEMATIC REF. NO. A23 (A26)
NEXT ASSEMBLY NO. 1400140 (1400143)
PROM NO. / PART NO. 1400318 - 01

ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
					-01	-02	-03	-04	-05	-06						
1																
2																
3	1400148	SCHEMATIC			(+)	A	D	E	F	G						
4	1461502-01	PWA, PIGGYBACK, CONTROL TRACK GATING								1						
5	051-770	FILTER, INDUCTOR	FL1-3		3	3	3	3	3	3						
6	1400003-01	SHIELD					1	1	1	1						
7	1400004-01	HANDLE					1	1	1	1						
8	1400005-AP	LABEL					1	1	1	1						
9	1400316-01	PROM, FINE	A19				1	1	1	1						
10	1400317-02	PROM, C.T. RECORD	A17				1	1	1	1						
11	1400318-02	PROM, COURSE	A27				1	1	1	1						
12	540-055	INDUCTOR, FIXED, 10MH, 10%	FL4				1	1	1	1						
13																
14																
15	013-257	DIODE, ZENER, 6.2V, 1N753A	VR1				1	1	1	1						
16	013-431	DIODE, ZENER, 3.6V, 1N747A	VR2				1	1	1	1						
17																
18	013-599	DIODE, SWITCHING, 1N4531	CR1-5		5	5	5	5	5	5						
19																
20	014-406	TRANSISTOR, PNP, MPS6534	Q3		1	1	1	1	1	1						
21	014-780	TRANSISTOR, NPN, MPS6514	Q2,4		2	2	2	2	2	2						
22	014-781	TRANSISTOR, PNP, MPS6518	Q5,6,8		3	3	3	3	3	3						
23	014-787	TRANSISTOR, NPN, MPS6521	Q1		1	1	1	1	1	1						
24																
25	580-381	TRANSISTOR, FET, N-CHANNEL, 2N5640	Q7		1	1	1	1	1	1						
26	034-220	CAPACITOR, MICA, 150pF., 500V, 1%	C35				1	1	1	1						
27	034-181	CAPACITOR, MICA, 47pF, 500V, 5%	C6		1	1	1	1	1	1						
28	034-240	CAPACITOR, MICA, 220pF, 500V, 5%	C27		1	1	1	1	1	1						
29	034-286	CAPACITOR, MICA, 200pF, 500V, 5%	C9		1	1	1	1	1	1						
30	034-298	CAPACITOR, MICA, 390pF, 500V, 1%	C35		1	1	-	-	-	-						
31	034-963	CAPACITOR, MICA, 15pF, 500V, 5%	C34		1	-	-	-	-	-						
32	034-177	CAPACITOR, MICA, 100pF, 500V, 5%	C65			1	1	1	1	1						
33	035-817	CAPACITOR, MYLAR, .015uF, 50V, 5%	C30		1	1	1	1	1	1						
34	034-309	CAPACITOR, MICA, 560pF, 300V, 1%	C10			1	1	1	1	1						
35	055-133	CAPACITOR, MYLAR, .0022uF, 50V, 5%	C10		1	-	-	-	-	-						
36	055-166	CAPACITOR, MYLAR, .001uF., 50V, 5%	C32		1	1	1	1	1	1						
37	034-156	CAPACITOR, MICA, 5pF, 500V, $\pm .5pF$	C34			1	1	1	1	1						

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400146	SHEET 2		REV L						
ITEM NO.	PART NUMBER	DESCRIPTION			REF DESIG.	QTY REQD PER DASH NUMBER									
						-01	-02	+03	-04	-05	-06				
38	037-164	CAPACITOR, TANT, TUBULAR, 1.0uF, 35V, 10% C18				1	1	1	1	1	1				
39															
40	037-591	CAPACITOR, TANT, DIPPED, 1.0uF, 35V, 20% C20,22				2	2	2	2	2	2				
41	037-812	CAPACITOR, TANT, DIPPED, 10.0uF, 25V, 20% C37,38,49				3	3	3	3	3	3				
42	037-908	CAPACITOR, TANT, DIPPED, 4.7uF, 35V, 20% C7,8				2	2	2	2	-	-				
43	037-954	CAPACITOR, TANT, DIPPED, 22uF, 15V, 20% C2,3,14,24,36,63				6	6	6	6	6	6				
44	037-963	CAPACITOR, TANT, DIPPED, 33uF, 10V, 20% C21,23				2	2	2	2	2	2				
45	030-844	CAPACITOR, CER., MONO, 1.0uF, 50V, 10% C7,8								2	2				
46															
47	055-810	CAPACITOR, POLYCARB, .1uF, 100V, 1% C42				1	1	1	1	1	1				
48	064-308	CAPACITOR, CER., MONO, .27uF, 100V, 20% C25					1	1	1	1	1				
49	069-042	CAPACITOR, POLYCARB, .56uF, 100V, 1% C17,43				2	2	2	2	2	2				
50	064-306	CAPACITOR, CER., MONO, .15uF, 100V, 20% C25					-	-	-	-	-				
51	064-062	CAPACITOR, CER., MONO, .1uF, 100V, 20% C5, .29				2	2	2	2	-	-				
52	064-133	CAPACITOR, CER., MONO, .33uF, 100V, 20% C12					1	1	1	1	1				
53	064-313	CAPACITOR, CER., MONO, .68uF, 50V, 20% C31,33				2	-	-	-	-	-				
54	064-317	CAPACITOR, CER., MONO, 2.7uF, 50V, 20% C33					1	1	1	1	1				
55	064-116	CAPACITOR, CER., DISC, .01uF, 50V C13,15,19,26,28,39,41,66,44,48,50,51,52,54,56-62				21	21	21	21	21	21				
56	064-569	CAPACITOR, CER., DISC, .05uF, 50V C4					1	1	1	1	1				
57	064-304	CAPACITOR, CER., MONO, .068uF, 100V, 20% C31					1	1	1	1	1				
58	069-090	CAPACITOR, POLYESTER, .001uF, 50V, 5% C45					1	1	1	1	1				
59	069-092	CAPACITOR, POLYESTER, .047uF, 50V, 5% C1,16,64				3	3	3	3	-	-				
60	069-097	CAPACITOR, POLYESTER, .022uF, 50V, 5% C40,46,47,53,55				8	-	-	-	-	-				
61	069-106	CAPACITOR, POLYESTER, .0027uF, 50V, 5% C11					-	-	-	-	-				
62	069-097	CAPACITOR, POLYESTER, .022uF, 50V, 5% C11,40,46,47,53,55					6	6	6	6	6				
63	058-539	RESISTOR, VAR., CERMET, 1K, 1/2W, 5%, 20T R1				1	1	1	1	1	1				
64	058-540	RESISTOR, VAR., CERMET, 5K, 1/2W, 10% R44					1	1	1	1	1				
65	058-575	RESISTOR, VAR., CERMET, 100K, 1/2W, 10% R49,53				2	2	2	2	2	2				
66	058-601	RESISTOR, VAR., CERMET, 1K, 1/2W, 10%, 20T R28,35				2	-	-	-	-	-				
67	058-610	RESISTOR, VAR., CERMET, 20K, 1/2W, 20%, IT R32					1	1	1	1	1				
68	058-601	RESISTOR, VAR., CERMET, 1K, 1/2W R35					1	1	1	1	1				
69	075-203	RESISTOR, VAR., COND. PLSTC, 47K, .1W, 20% R29					1	1	1	1	1				
70	058-565	RESISTOR, VAR., CERMET, 10K, 1/2W R28					1	1	1	1	1				
71	062-639	RESISTOR, METAL FILM, 3.01K, 1/8W, 1% R34						1	1	1	1				
72	062-797	RESISTOR, METAL FILM, 31.6K, 1/8W, 1% R38						1	1	1	1				
73	062-950	RESISTOR, METAL FILM, 2.74K, 1/8W, 1% R23,26				2	2	2	2	2	2				
74	062-968	RESISTOR, METAL FILM, 4.99K, 1/8W, 1% R3					1	1	1	1	1				
75															
76	066-079	RESISTOR, METAL FILM, 301K, 1/8W, 1% R33					1	1	1	1	1				
77	066-656	RESISTOR, METAL FILM, 30.1K, 1/8W, 1% R30					1	1	1	1	1				
78															
79	064-062	CAPACITOR, CER., MONO, .10uF, 100V, 20% C29								1	1				
80	069-092	CAPACITOR, POLYESTER, .047uF, 50V, 5% C1,5,16,64								4	4				
81															
82															

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1400146 SHEET 3	REV L									
ITEM NO	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
					-01	-02	-03	-04	-05	-06						
83	041-404	RESISTOR, C.F., 510 OHM, 1/2W, 5%	R41		1	1	1	1	1	1						
84																
85	066-720	RESISTOR, C.F., 3.3K, 1/4W, 5%	R61,62			2	2	2	2	2						
86	066-661	RESISTOR, C.F., 120 OHM, 1/4W, 5%	R55		1	1	1	1	1	1						
87	066-662	RESISTOR, C.F., 200 OHM, 1/4W, 5%	R81,91		2	2	2	2	2	2						
88	066-663	RESISTOR, C.F., 220 OHM, 1/4W, 5%	R71,85		2	2	2	2	2	2						
89	066-665	RESISTOR, C.F., 1K, 1/4W, 5%	R8,17		2	2	2	2	2	2						
90	066-667	RESISTOR, C.F., 3k, 1/4W, 5%	R20,24,27		3	-	-	-	-	-						
91	066-668	RESISTOR, C.F., 4.7K, 1/4W, 5%	R10-13,39,72,80,86,93-95,60		1	12	12	12	12	12						
92	066-673	RESISTOR, C.F., 1MEG.OHM,1/4W, 5%	R22,46,52		3	-	-	-	-	-						
93	066-689	RESISTOR, C.F., 2.2K OHM,1/4W, 5%	R54		1	1	1	1	1	1						
94	066-717	RESISTOR, C.F., 47K OHM, 1/4W, 5%	R43		1	1	1	1	1	1						
95	066-812	RESISTOR, C.F., 100 OHM, 1/4W, 5%	R66,67,75,77,78,96,97		6	7	7	7	7	7						
96	066-830	RESISTOR, C.F., 10K, 1/4W, 5%	R18,21,25,36,37,42,47,63,64,68,69,83,99		1	12	13	13	13	13						
97	066-816	RESISTOR, C.F., 390 OHM,1/4W, 5%	R88		1	1	1	1	1	1						
98	066-820	RESISTOR, C.F., 750 OHM, 1/4W, 5%	R5		1	1	1	1	1	1						
99	066-826	RESISTOR, C.F., 2K OHM, 1/4W, 5%	R70,74,92		3	3	3	3	3	3						
100	066-828	RESISTOR, C.F., 43K OHM, 1/4W, 5%	R4		1	1	1	1	1	1						
101	066-830	RESISTOR, C.F., 10K OHM, 1/4W, 5%	R18,21,25,36,37,42,47,58,61-64,68,69,83,98,99		17	-	-	-	-	-						
102	066-834	RESISTOR, C.F., 33 OHM, 1/4W, 5%	R9		1	1	1	1	1	1						
103	066-843	RESISTOR, C.F., 6.2K OHM,1/4W, 5%	R6		1	1	1	1	1	1						
104	066-846	RESISTOR, C.F., 30K OHM, 1/4W, 5%	R31,73,76,89		4	4	4	4	4	4						
105	066-849	RESISTOR, C.F., 100K OHM,1/4W, 5%	R2,14,19,40,48,57,59		7	-	-	-	-	-						
106	066-856	RESISTOR, C.F., 15K OHM, 1/4W, 5%	R45,51,84		3	-	-	-	-	-						
107	066-860	RESISTOR, C.F., 39K OHM, 1/4W, 5%	R90		1	1	1	1	1	1						
108	066-928	RESISTOR, C.F., 2.4K OHM,1/4W, 5%	R87		1	1	1	1	1	1						
109	066-938	RESISTOR, C.F., 47K OHM, 1/4W, 5%	R7		1	1	1	1	1	1						
110	066-958	RESISTOR, C.F., 75K OHM, 1/4W, 5%	R50,65,79,82		4	4	4	4	4	4						
111	066-974	RESISTOR, C.F., 150K OHM,1/4W, 5%	R15,16		2	2	2	2	2	2						
112	041-795	RESISTOR, COMP., 12M, 1/4W,5%	R56		1	-	-	-	-	-						
113																
114	075-172	VARIABLE RES, MTG.,BKT.	REF: R29		1	1	1	1	1	1						
115																
116	119-613	SWITCH, DIP, DPST	S2		1	1	1	1	1	1						
117																
118	120-967	SWITCH, SPDT	S1		1	1	1	1	1	1						
119																
120	143-981	CONNECTOR, SIGNAL CKT, JACK	J1,2		2	2	2	2	2	2						
121																
122	187-259	TEST POINTS	TP1-7		7	7	7	7	7	7						
123																
124	230-140	KNOB	REF: R29		1	1	1	1	1	1						
125																
126	602-044	SHORTING PLUG	REF: J1,2		2	2	2	2	2	2						
127	589-820	INTEGRATED CIRCUIT, 74LS74N	A11,29,32,36,43		1	-	-	-	-	5						

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400146 SHEET 4	RFV L								
ITEM NO.	PART NUMBER	DESCRIPTION	REF. DESIG.	QTY REQD PER DASH NUMBER											
				-01	-02	-03	-04	-05	-06						
128	582-134	SOCKET, I.C., 16 PIN	REF: A17	1		1	1	1	1						
129	582-161	SOCKET, I.C., 18 PIN	REF: A19,27	2	2	2	2	2	2						
130	587-460	SOCKET, I.F., 14 DIP	P21,40-42							4					
131	590-611	INTEGRATED CIRCUIT, LM741TC	1 A4	1		1	1	1	1						
132	587-217	INTEGRATED CIRCUIT,DG-200,	2 A6,A46			2	2	2	2						
133	587-217	INTEGRATED CIRCUIT, DG200	A6	1		-	-	-	-						
134	589-816	INTEGRATED CIRCUIT, 74LS10N	1 A14,30,45	3	3	3	3	3	3						
135	589-820	INTEGRATED CIRCUIT, 74LS74N	A11,21,29,32,35,41-43	8	8	8	8	8	-						
136	589-813	INTEGRATED CIRCUIT, 74LS00N	A9,18,28,31,27,40	6	6	6	6	6	-						
137	589-814	INTEGRATED CIRCUIT, 74LS04N	A23,26,38	3	3	3	3	3	3						
138	589-815	INTEGRATED CIRCUIT, 74LS08N	A25	1		1	1	1	1						
139	590-329	INTEGRATED CIRCUIT, 74LS123N	A13,16	2	2	2	2	2	2						
140	589-934	INTEGRATED CIRCUIT, 74LS221N	A2,22,33,34	4	4	4	4	4	4						
141	590-450	INTEGRATED CIRCUIT, CD4053	2 A10	1		1	1	1	1						
142	590-620	INTEGRATED CIRCUIT, 74LS86N	A39,44	2	2	2	2	2	2						
143	590-332	INTEGRATED CIRCUIT, 74LS02N	A15	1		1	1	1	1						
144	589-831	INTEGRATED CIRCUIT, 74LS175N	A12	1		1	1	1	1						
145	589-951	INTEGRATED CIRCUIT, 74LS191N	A24	1		1	1	1	1						
146	589-813	INTEGRATED CIRCUIT, 74LS00N	A9,18,28,31,37							5					
147	589-935	INTEGRATED CIRCUIT, 74LS393	A20,35	2	2	2	2	2	2						
148	590-502	INTEGRATED CIRCUIT, TLO72	A3,5,7	3	3	3	3	3	3						
149	590-589	INTEGRATED CIRCUIT, NE5534A	1 A1,8	2	2	2	2	2	2						
150	501-169	WASHER, PLAIN #4								1					
151	473-324	SCREW, MACH., PAN HD., X-REC, SEMS, 4-40 X .250 LG								1					
152	280-319	SPACER, THD., HEX, 4-40 X .250 LG								1					
153	283-105	SPACER, PLAIN, 140 I.D., 250 O.D., 126LG		1	1	1	1	1	6						
154	471-063	SCREW, MACH, PAN HD, XREC, 4-40 X .438 LG		1	1	1	1	1	1						
155	473-325	SCREW, MACH, PAN HD, XREC, 4-40 X .312 LG		1	1	-	-	-	-						
156	501-169	WASHER, PLAIN, .125 I.D., 250 O.D., (#4)		1	1	-	-	-	-						
157	502-002	WASHER, LOCK, HELICAL SPRING, (#4)		1	1	1	1	1	6						
158	506-011	WASHER, BOWED		1	1	1	1	1	1						
159	474-500	SCREW, MACH, PAN HD., X REC. 4-40 X 312 LG		1	5	5	5	5	-						
160	474-500	SCREW, MACH., PAN HD., X-REC, 4-40 X .250 LG								4					
161	066-849	RESISTOR, C.F., 100K, 1/4W, 5% R2,14,19,40,48,57			6	-	6	6	6						
162	076-012	RESISTOR, C.F., 330K, 1/4W, 5% R59			1	1	1	1	1						
163	066-842	RESISTOR, C.F., 5.1K, 1/4W, 5% R58,98			2	2	2	2	2						
164	066-856	RESISTOR, C.F., 15K, 1/4W, 5% R45,84			2	2	2	2	2						
165	066-832	RESISTOR, C.F., 18K, 1/4W, 5% R51			1	1	1	1	1						
166	066-667	RESISTOR, C.F., 3K, 1/4W, 5% R20,24			2	2	2	2	2						
167	066-829	RESISTOR, C.F., 6.8K, 1/4W, 5% R27			1	1	1	1	1						
168	066-940	RESISTOR, C.F., 2.2M, 1/4W, 5% R56			1	-	-	-	-						
169	066-819	RESISTOR, C.F., 100K, 1/4W, 5% R2,14,19,40,48,52,57				7	-	-	-						
170	066-940	RESISTOR, C.F., 2.2 MEG., 1/4W, 5% R22,56				2	-	-	-						
171	066-673	RESISTOR, C.F., 1MEG., 1/4W, 5% R46				1	1	1	1						
172	066-940	RESISTOR, C.F., 2.2 MEG., 1/4W, 5% R22,52,56					3	3	3						

NOTES:

1

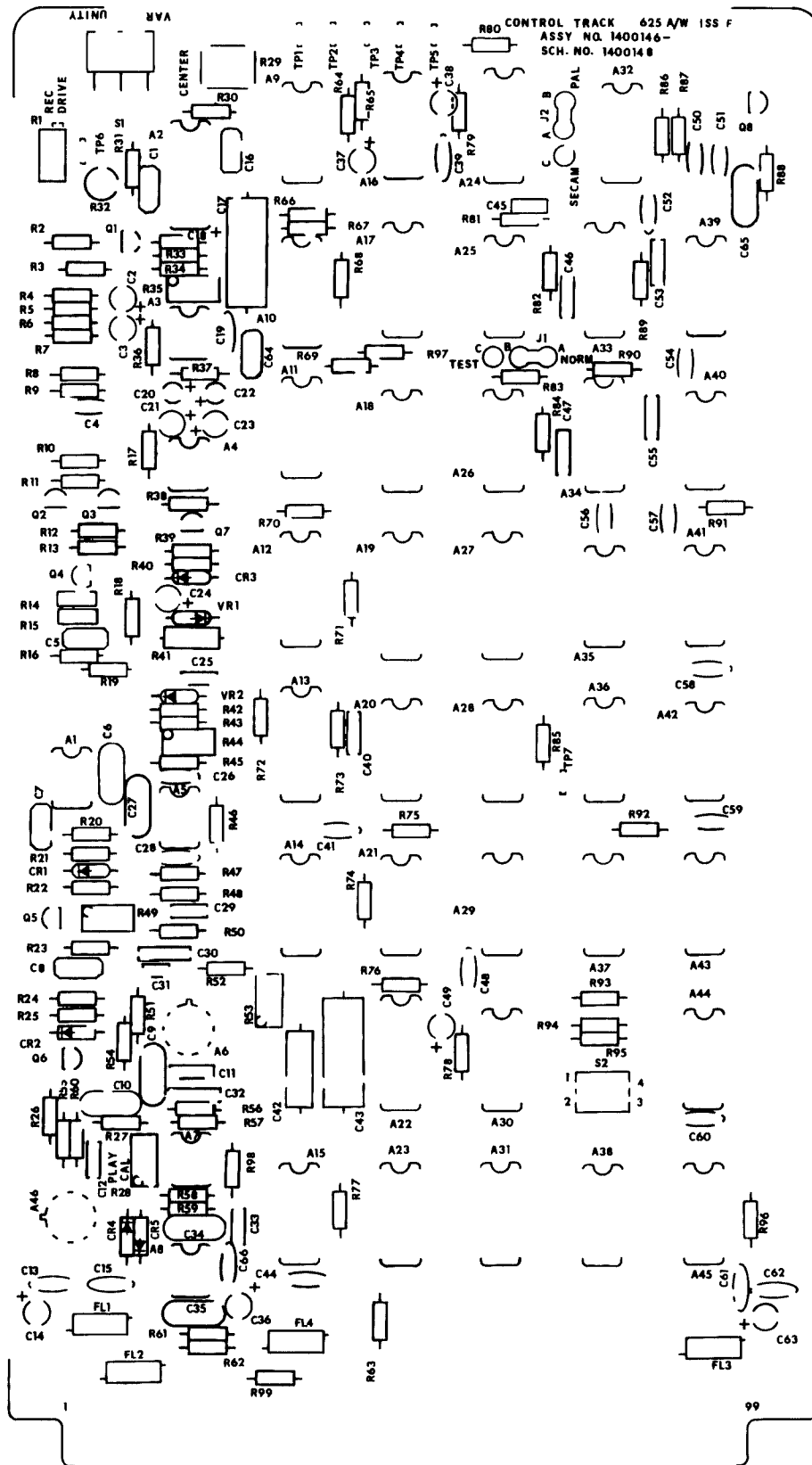
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INDICATES PRESTRESSED I.C.'S
STATIC SENSITIVE; SPECIAL HANDLING

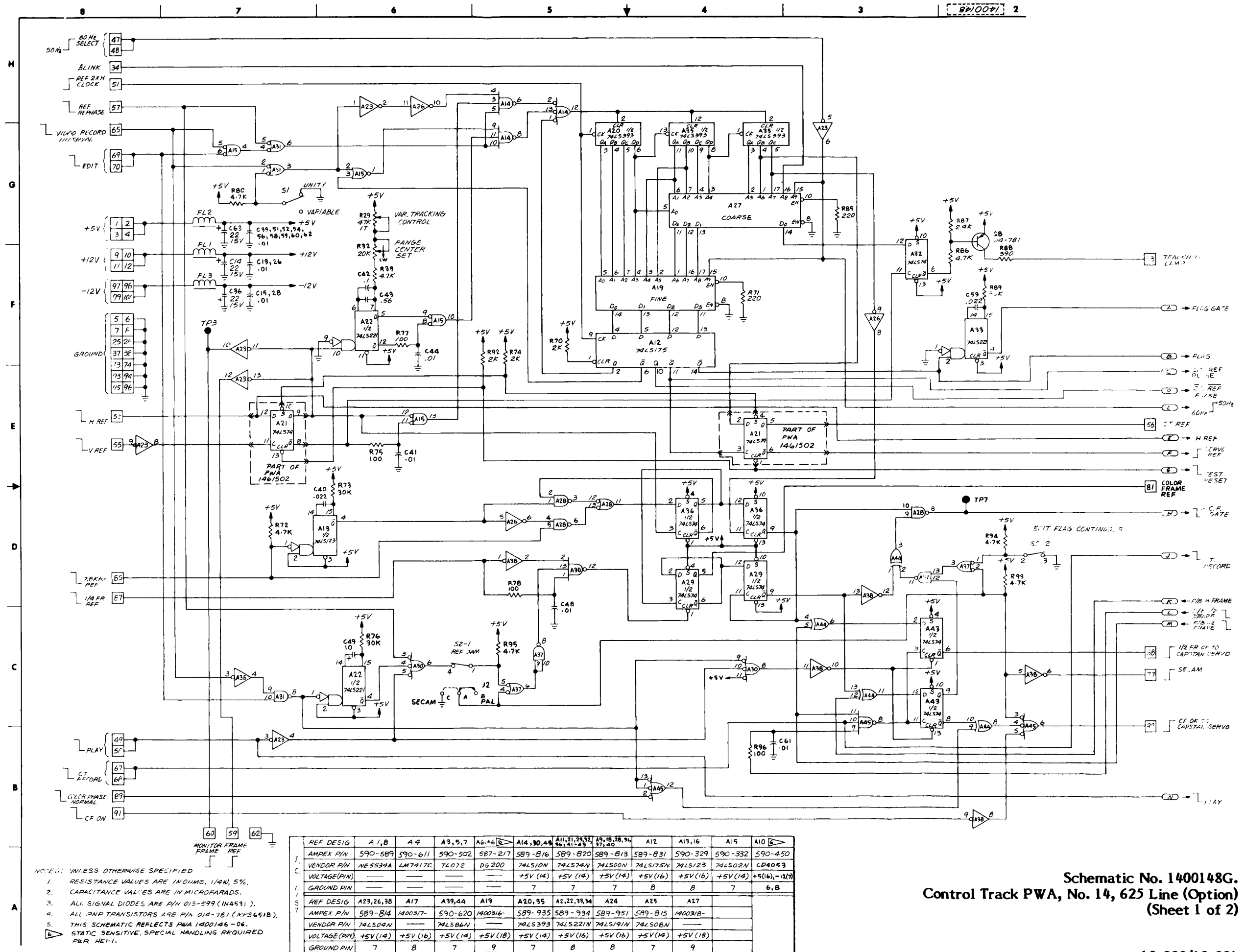
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STATIC SENSITIVE; SPECIAL HANDLING

NOTES:

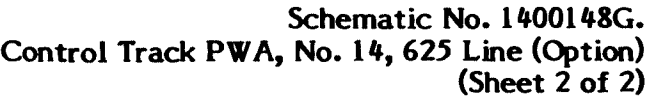




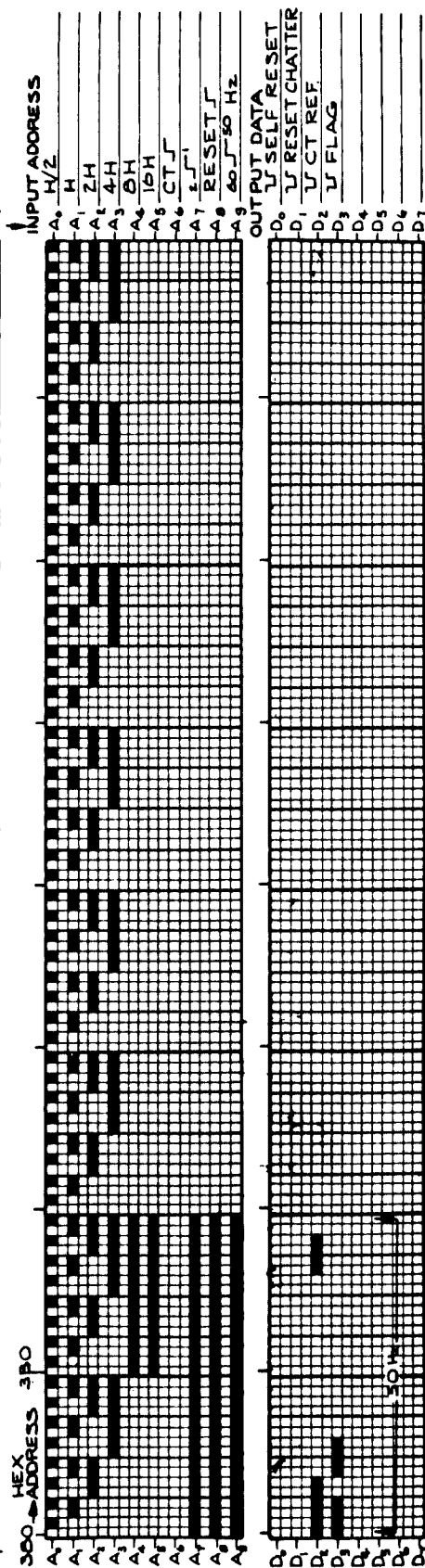
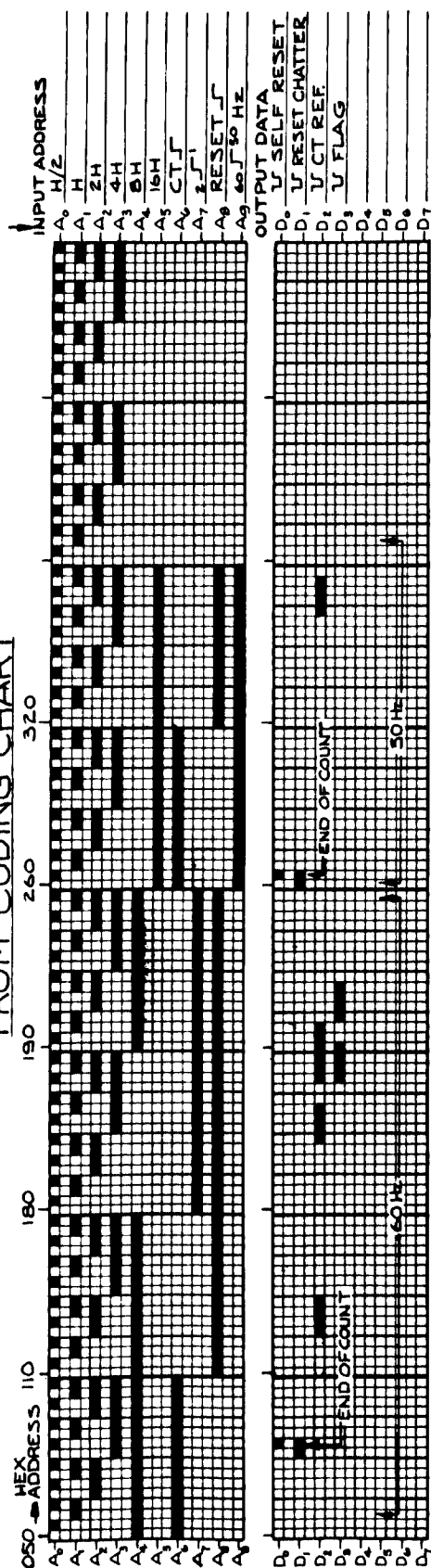
Assembly No. 1400146-06L. Control Track PWA, No. 14, 625 Line



Schematic No. 1400148G.
Control Track PWA, No. 14, 625 Line (Option)
(Sheet 1 of 2)



PROM CODING CHART



SCHEMATIC NO. 1400145
 SCHEMATIC REF. NO. A16
 NEXT ASSEMBLY NO. 1400143
 PROM NO./PART NO. 1400318-01
 NOTE: OUTPUT DATA ON ALL INVALID ADDRESSES ARE HIGH.

PROM CODING CHART

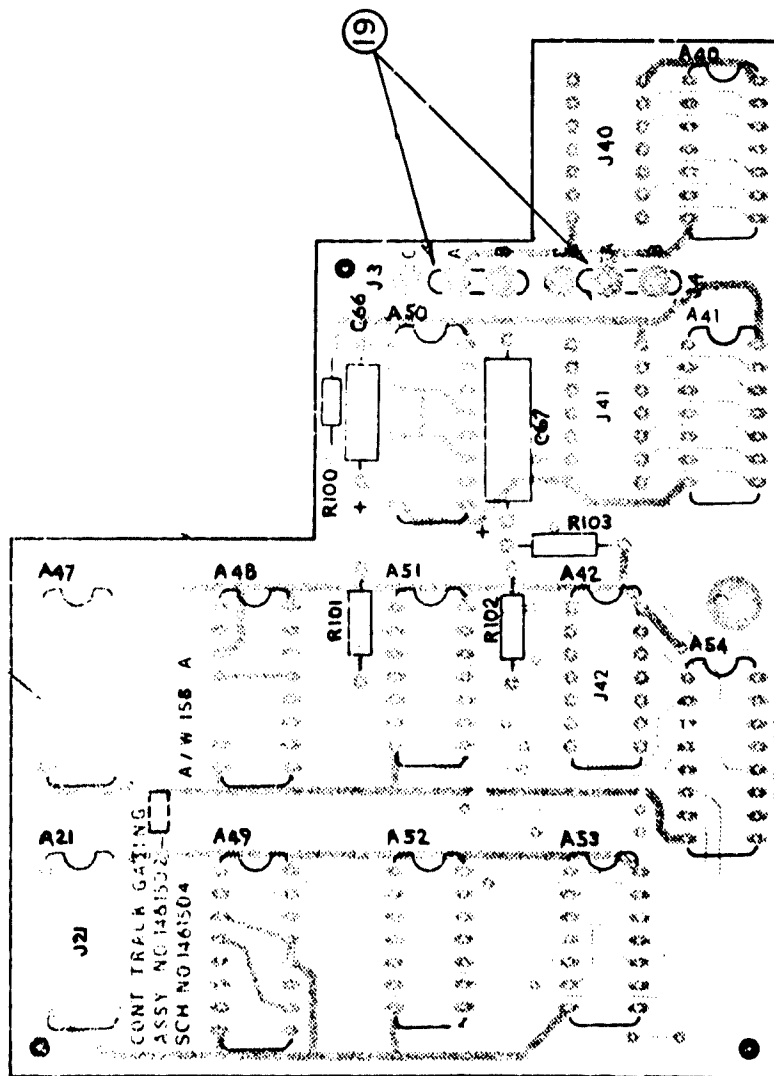
ADDRESS:
HEX
DECIMAL

000	004	008	012	016	020	024	028	032	036	040	044	048	052	056	060	064	068	072	076	080	084	088	092	096	100	104	108	112	116	120
A0	A1	A2	A3	A4	A5	A6	A7	A8	A9	D0	D1	D2	D3	D4	D5	D6	D7	BIAS	CT REF	FLAG	SERVO REF	COLOR FRAME REF	FLAG GATE	END	RECORD	DRIVE U	DRIVE U	TP4		

HEX
DECIMAL

000	004	008	012	016	020	024	028	032	036	040	044	048	052	056	060	064	068	072	076	080	084	088	092	096	100	104	108	112	116	120
A0	A1	A2	A3	A4	A5	A6	A7	A8	A9	D0	D1	D2	D3	D4	D5	D6	D7	BIAS	CT REF	FLAG	SERVO REF	COLOR FRAME REF	FLAG GATE	GND	RECORD	DRIVE U	DRIVE U	TP4		

- NOTES
1. FROM PART NO IS 1400317-02
 2. MAKE FROM AMPLEX PART NO. 587-955
 3. PROGRAM AND MARK PER SC
 4. PAPER TAPE BY 1400317-02
- AVAILABLE FROM AMS DOCUMENT CONTROL.



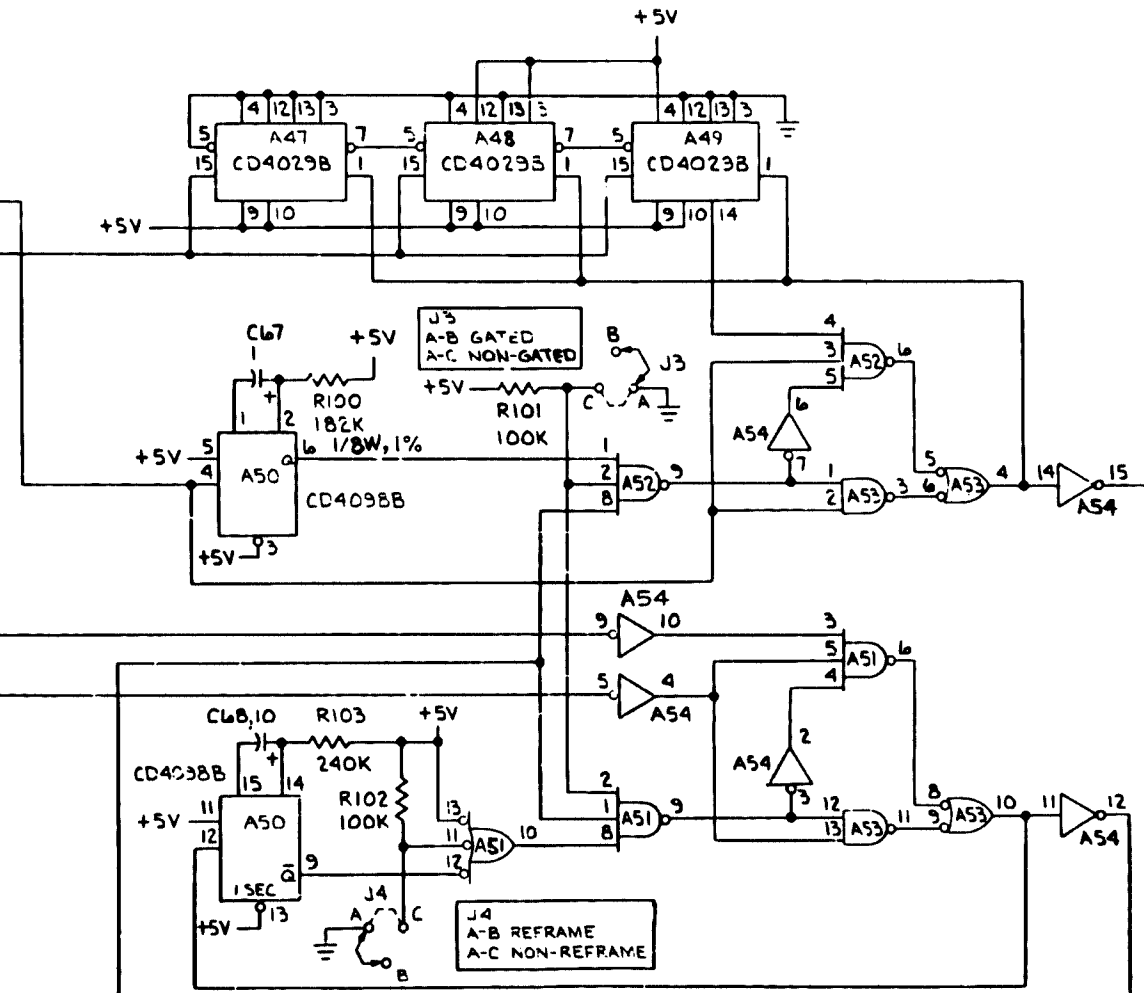
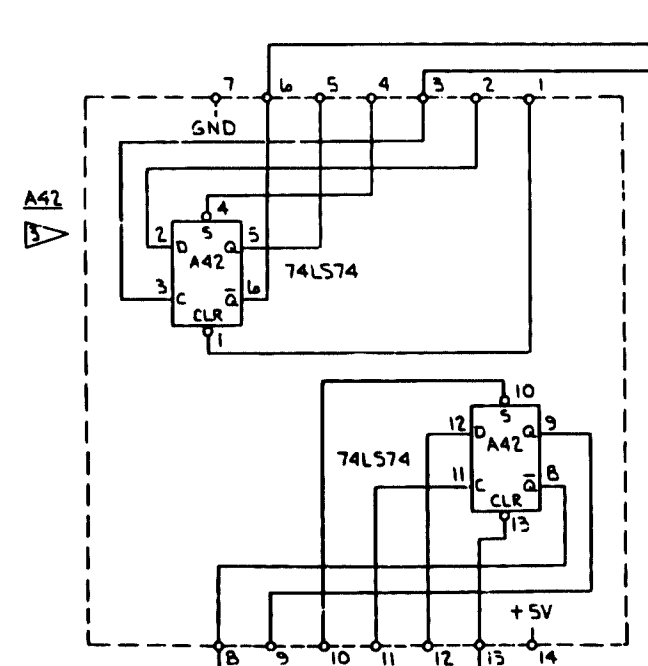
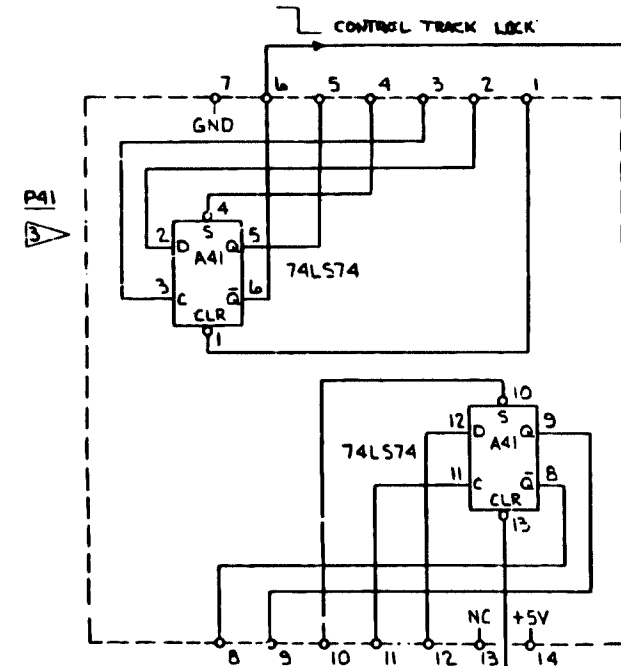
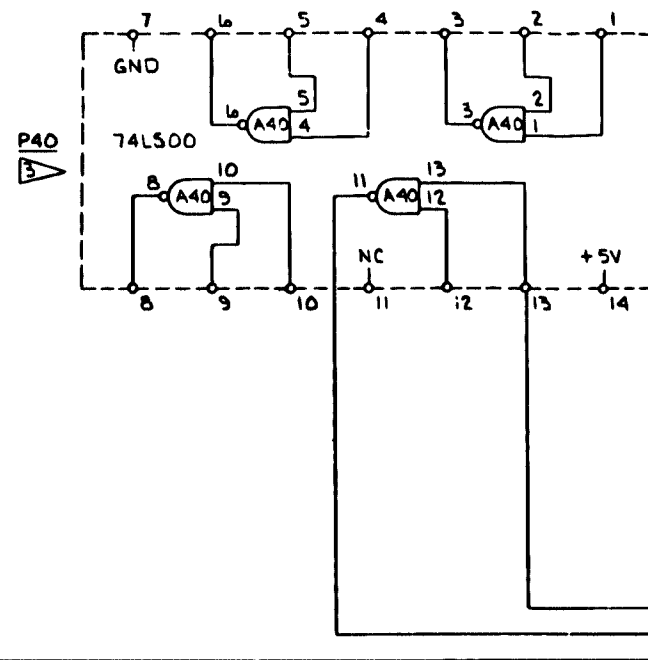
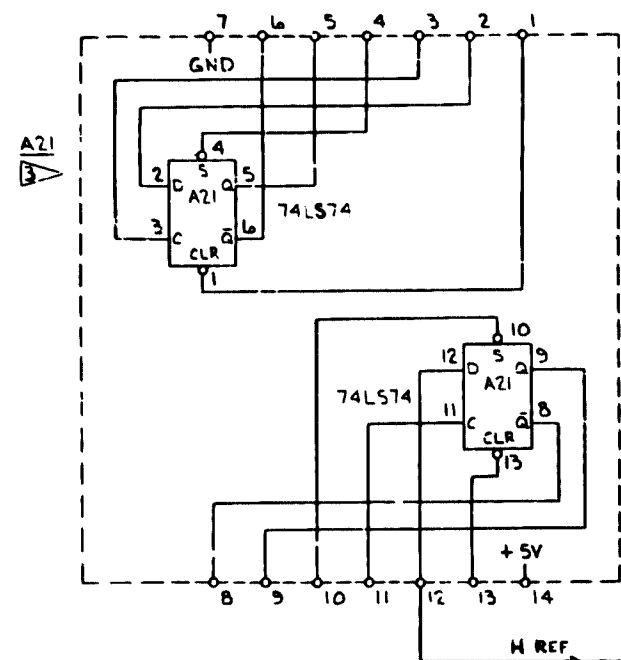
Assembly No. 1461502-01—. Control Track Gating Piggyback PWA

D

C

B

A



NOTES : UNLESS OTHERWISE SPECIFIED

1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
2. CAPACITANCE VALUES ARE IN MICROFARADS.
3. PINS ON A21, A42, P40 AND P41, CONNECT TO A21, A42, J40 AND J41 IC SOCKETS, ON CONTROL TRACK PWA 1400146, REF. SCHEMATIC 1400148.
4. SCHEMATIC REFLECTS PIGGYBACK PWA 1461502-01.
5. STATIC SENSITIVE, SPECIAL HANDLING REQUIRED PER HEI-1.

IC LIST								REF. DES.	
REF. DES.	A21, 41, 42	A40	A47, 48, 49	A50	A51, 52	A53	A54	LAST USED	NOT USED
AMPEX P/N	589-820	589-813	590-571	589-643	590-466	590-482	590-789	A54	
VENDOR P/N	74LS74	74LS00	4029	4058	4023	4011	4049	C68	
VOLTAGE (PIN)	+5V (14)	+5V (14)	+5V (16)	+5V (16)	+5V (14)	+5V (14)	+5V (1)	J4	
GND (PIN)	(7)	(7)	(8)	(8)	(7)	(7)	(8)	R103	

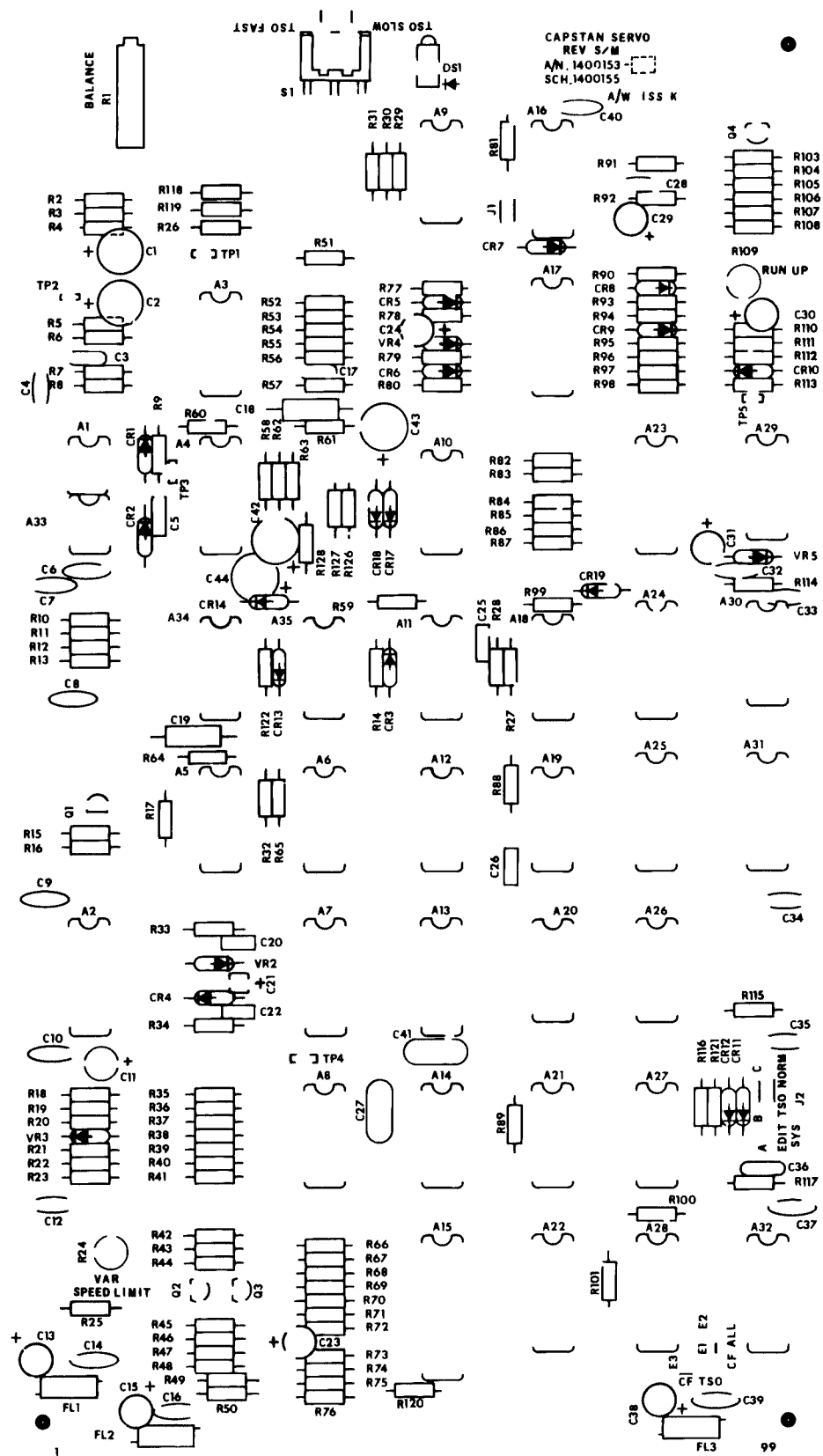
Schematic No. 1461504—
Control Track Gating Piggyback PWA

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02	-03	-04	-05	-06	-07	-08	-09	
1													
2	1400155	SCHEMATIC, CAPSTAN SERVO	(-)	A	B	C	D	F	G	H	N		
3													
4	1400003-01	SHIELD			1	1	1	1	1	1	1	1	
5													
6	1400004-01	HANDLE		1	1	1	1	1	1	1	1	1	
7													
8	1400005-AZ	LABEL		1	1	1	1	1	1	1	1	1	
9													
10	119-578	SWITCH SPDT, CENTER OFF, MOMENTARY ON	S1	1	1	1	1	1	1	1	1	1	
11													
12	581-618	LED, RED <i>Diff. Display</i>	DS1	1	1	1	1	1	1	1	1	1	
13	280-130	SPACER, LED	REF: DS1	1	1	1	1	1	1	1	1	1	
14													
15	590-537	INTEGRATED CIRCUIT, 7486	A34	1	1	1	1	1	1	1	1	1	
16	590-329	74LS123	A2,16	2	2	2	2	2	2	2	2	2	
17	589-934	74LS221	A7	1	1	1	1	1	1	1	1	1	
18	590-332	74LS02	A9,14	2	2	2	2	2	2	2	2	2	
19	589-813	74LS00	A19,27,35	3	3	3	3	3	3	3	3	3	
20													
21	589-814	74LS04	A5,26	2	2	2	2	2	2	2	2	2	
22	590-536	7406	A6,10	2	2	2	2	2	2	2	2	2	
23	589-815	74LS08	A12	1	1	1	1	1	1	1	1	1	
24	589-816	74LS10	A21	1	1	1	1	1	1	1	1	1	
25	589-820	74LS74	A11,18,20	3	3	3	3	3	3	3	3	3	
26													
27	589-933	74LS161	A31	1	1	1	1	1	1	1	1	1	
28	589-830	74LS174	A22,28	2	2	2	2	2	2	2	2	2	
29	590-336	74LS390	A13	1	1	1	1	1	1	1	1	1	
30	589-935	74LS393	A30	1	1	1	1	1	1	1	1	1	
31	590-450	CD4053	A4,17,23	3	3	3	3	3	3	3	3	3	
32													
33	590-446	LM310	A1,33	2	2	2	2	2	2	2	2	2	
34	590-447	LM324	A3,29	2	2	2	2	2	2	2	2	2	
35	590-449	INTEGRATED CIRCUIT, LM339	A8	1	1	1	1	1	1	1	1	1	
36													
37													

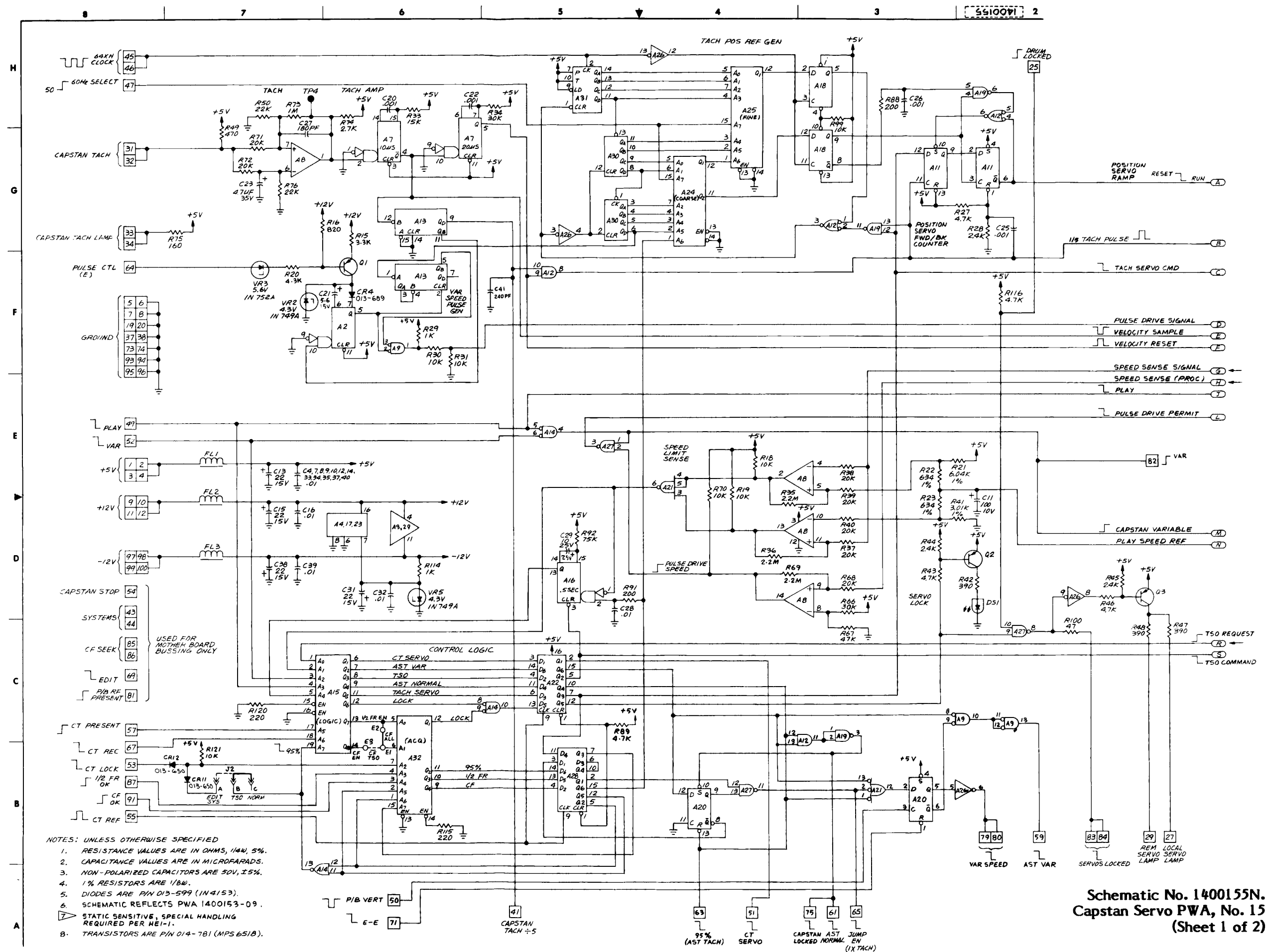
AMPEX		CODE IDENT NO. 92739		LIST OF MATERIALS		LM-1400153		SHEET 2		REV			
Ampex Corporation REDWOOD CITY, CALIFORNIA													
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02	-03	-04	-05	-06	-07	-08	-09	
38	1400334	PROM TACH FINE (SN74S287N)	A25	-01	-01	-01	-01	-01	-01	-01	-01	-01	
39	1400335	PROM ACQ (SN74S287N)	A32	-01	-02	-02	-02	-02	-02	-02	-02	-04	
40	1400332	PROM LOGIC (SN74S471N)	A15	-02	-02	-02	-02	-02	-02	-02	-02	-02	
41	1400333	PROM COARSE (SN74S287N)	A24	-01	-01	-01	-01	-01	-01	-01	-01	-01	
42													
43	013-650	DIODE, GERMANIUM, 1N270	CR3, 11-14, 17-19							8	8	8	
44	014-781	TRANSISTOR, PNP MPS6518	Q1, 2, 3, 4	4	4	4	4	4	4	4	4	4	
45	013-650	DIODE, GERMANIUM	CR3, 11-14, 17, 18										
46	013-650	DIODE, GERMANIUM	CR3, 11-16										
47	013-650	DIODE, GERMANIUM	CR3, 11-14			5	5						
48	013-650	DIODE, GERMANIUM	CR3, 11, 12, 13	4	4								
49	013-166	DIODE, ZENER, 3.3V 1N746A	VR4	1	1	1	1				1	1	
50	013-172	DIODE, ZENER 4.3V, 1N749A	VR2, 5	2	2	2	2	2	2	2	2	2	
51	013-358	DIODE, ZENER, 5.1V, 1N751A	VR3	1	1	1	1						
52	013-599	DIODE, SIGNAL, 1N2531	CR1, 2, 7, 8, 9, 10, 6	7	7	7	7	7	7	7	7	7	
53													
54	013-875	DIODE, STABISTOR 1.3V, MZ2361	CR5	1	1	1	1				1	1	
55	013-689	DIODE, SIGNAL, 1N3600 SELECT	CR4	1	1	1	1				1	1	
56	013-983	DIODE, ZENER, 5.6V, 1N752A	VR3									1	
57													
58	037-954	CAPACITOR, TANT, 22uF, 15V, 20% C13, 15, 24, 30, 31, 38		6	6	6	6	6	6	6	6	6	
59	037-894	TANT, 100uF, 10V, 20% C11								1	1	1	
60	037-894	TANT, 100uF, 10V, 20% C11, 43						2					
61	037-892	TANT, 47uF, 20V, 20% C1, 2		2	2	2	2	2					
62	037-894	100uF, 10V, 20% C11		1	1	1	1						
63	037-973	330 uF, 6V, 20% C42			1	1	1	1					
64	037-973	330 uF, 6V, 20% C42, 43							2	2	2		
65	037-611	5.6uF, 15V, 20% C21		1	1	1	1	1	1	1	1	1	
66	037-812	10uF, 25V, 20% C29		1	1	1	1	1	1	1	1	1	
67	037-908	TANT, 4.7uF, 35V, 20% C23		1	1	1	1	1	1	1	1	1	
68	037-892	TANT, 47uF, 20V, 20% C1, 2, 44								3	3	3	
69	064-062	MONO, .1uF, 50V, 20% C36		1	1	1	1	1	1	1	1	1	
70	064-307	MONO, .22uF, 100V, 20% C3, 17		2	2	2	2	2	2	2	2	2	
71													
72	064-116	+80% CERAMIC, .01uF, 50V, -20% C4, 6-10, 12, 14, 16, 28, 32-35, 37, 39, 40		17	17	17	17	17	17	17	17	17	
73													
74	034-347	MICA, 180pF, 500V, 5% C27		1	1	1	1	1	1	1	1	1	
75	034-935	MICA, 240pF, 500V, 5% C41		1	1	1	1	1	1	1	1	1	
76	069-090	POLY, .001uF, 50V, 5% C20, 22, 25, 26		4	4	4	4	4	4	4	4	4	
77	069-102	POLY, .015uF, 50V, 5% C5		1	1	1	1	1	1	1	1	1	
78	055-810	CAPACITOR, POLY, .1uF, 100V, 1% C18, 19		2	2	2	2	2	2	2	2	2	
79													
80													
81	058-388	RESISTOR, VAR., 3/4" LG. 20T, 50K R1		1	1	1	1	1	1	1	1	1	
82													

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400153	SHEET 3	REV V				
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER								
				-01	-02	-03	-04	-05	-06	-07	-08	-09
83	058-001	RESISTOR, VAR, 50K, 1/2W	R109	1								1
84	058-004	VAR, 1K, 1/2W	R24	1								
85	044-943	2K, 1/2W	R24									1
86	062-911	M.F., 634 OHMS, 1/8W, 1%	R22,23	2	2	2	2	2	2	2	2	2
87	062-639	3.01K,	R41	1								1
88	062-961	3.92K,	R2,78	2	2	2	2	2	2	2	2	2
89	066-160	6.04K,	R21	1								1
90	066-513	8.66K,	R93	1								1
91												
92	062-983	10.0K,	R7,57,94	3	3	3	3	3	3	3	3	3
93	062-600	11.0K,	R77	1								1
94	062-694	15.0K,	R55,108	2	2	2	2	2	2	2	2	2
95	076-073	32.4K,	R64	1								1
96	062-986	M.F., 12.1K, 1/8W, 1%	R60	1								1
97	066-826	C.F., 2K 1/4W, 5%	R111,124									
98	066-665	C.F., 1K 1/4W, 5%	R12-14,17,29,79,114,122,125									
99	066-938	C.F., 47 OHM, 1/4W, 5%	R61,65,100	3	3	3	3	3	3	3	3	3
100	066-661	120 OHM, 1/4W, 5%	R110	1								1
101	066-984	160 OHM, 1/4W, 5%	R75	1								1
102	066-662	200 OHM, 1/4W, 5%	R88,91	2	2	2	2	2	2	2	2	2
103	066-838	330 OHM, 1/4W, 5%	R101	1								1
104	066-824	1.5K OHM, 1/4W, 5%	R15,25		2	2	2	2	2			
105	066-816	390 OHM, 1/4W, 5%	R42,47,48	3	3	3	3	3	3	3	3	3
106	066-665	1K, 1/4W, 5%	R12-14,17,29,79,114,122	8	8	8	8					
107	066-824	1.5K, 1/4W, 5%	R15	1								
108	066-826	2K, 1/4W, 5%	R111,25	2								
109	066-928	2.4K, 1/4W, 5%	R28,44,45	3	3	3	3	3	3	3	3	3
110	066-826	2K, 1/4W, 5%	R111									
111	066-668	4.7K, 1/4W, 5%	R5,11,27,32,43,46,56,89,95,116	10	10	10	10					
112	066-711	7.5K 1/4W, 5%	R26	1								1
113	066-669	8.2K 1/4W, 5%	R16	1								
114	066-856	15K 1/4W, 5%	R33,54	2	2	2	2	2	2	2	2	2
115	066-712	22K 1/4W, 5%	R3,4,50,76	4	4	4	4	4	4	4	4	4
116	066-668	4.7K, 1/4W, 5%	R5,11,27,32,43,46,56,89,116					9	9	9	9	9
117	066-866	27K 1/4W, 5%	R10	1								1
118	066-846	30K 1/4W, 5%	R34,52,53,66,97	5	5	5	5	5	5	5	5	5
119	066-958	75K 1/4W, 5%	R92,113,119	3	3	3	3	3	3	3	3	3
120	066-849	100K 1/4W, 5%	R90,107	2	2	2	2	2	2	2	2	2
121	066-974	150K 1/4W, 5%	R118	1								1
122	066-868	120K 1/4W, 5%	R95,106					2	2	2	2	2
123	066-850	240K 1/4W, 5%	R106	1								
124	066-940	2.2M 1/4W, 5%	R35,36,69	3	3	3	3	3	3	3	3	3
125	066-717	47K 1/4W, 5%	R6,67	2	2	2	2	2	2	2	2	2
126	066-818	470 1/4W, 5%	R49	1								1
127	066-673	RESISTOR, C.F., 1M 1/4W, 5%	R73	1								1

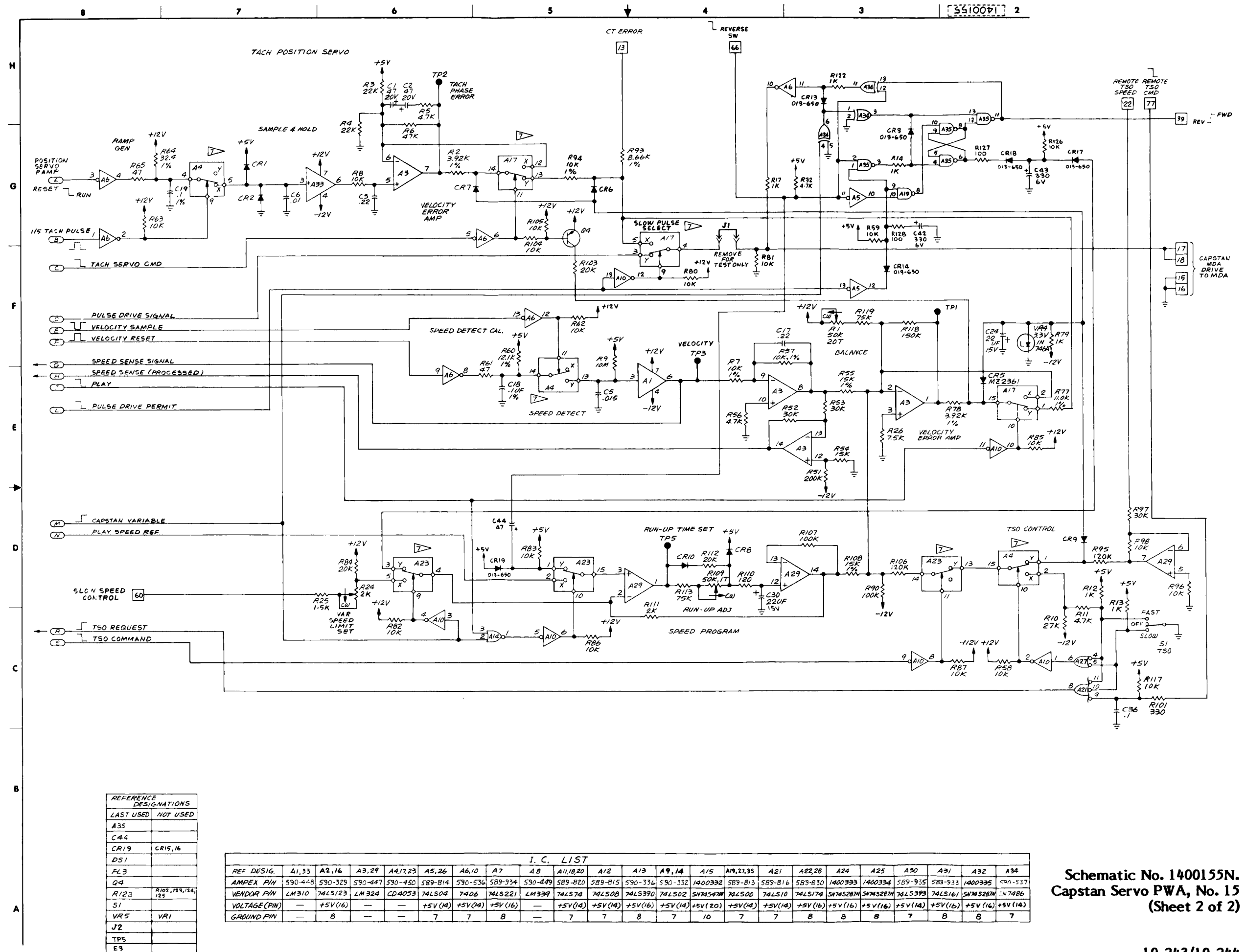
AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400153		SHEET 4		REV				
ITEM NO.	PART NUMBER		DESCRIPTION	REF. DESIG.	QTY REQD PER DASH NUMBER									
					-01	-02	-03	-04	-05	-06	-07	-08	-09	
128	066-812		RESISTOR, C.F., 100 OHM, 1/4W, 5% R127											
129	066-666		RESISTOR, C.F., 2.7K 1/4W, 5% R74			1	1	1					1	
130	066-663	↑	C.F., 220 1/4W, 5% R115, 120		2	2	2	2	2	2	2	2	2	
131	066-853		C.F., 200K 1/4W, 5% R51		1		1	1	1			1	1	
132	066-824		C.F., 1.5K, 1/4W, 5% R25										1	
133	066-848	↓	C.F., 43K 1/4W, 5% R20				1	1	1					
134	066-873		C.F., 20K 1/4W, 5% R37, 38, 39, 40, 68, 71, 72, 84, 103, 112		10	10	10	10	10	10	10	10	10	
135	066-830		RESISTOR, C.F., 10K 1/4W, 5% R8, 18, 19, 30, 31, 58, 62, 63, 70, 80-83, 85-87, 96, 98, 99, 104, 105, 117, 121		25	25								
136	066-821		RESISTOR, C.F., 820 OHMS, 1/4W, 5% R16										1	
137	041-793		RESISTOR, CARBON COMP, 10M, 1/4W, 5% R9			1	1	1	1				1	
138	066-812		RESISTOR, C.F., 100 OHMS, 1/4W, 5% R127, 128										2	2
139	051-770		INDUCTOR, FILTER FL1, 2, 3		3	3	3	3	3	3	3	3	3	
140	187-259		LUG, TEST TP1-5		5	5	5	5	5	5	5	5	5	
141	066-830		RESISTOR, C.F., 10K, 1/4W, 5% R8, 18, 19, 30, 31, 58, 59, 62, 63, 70, 80-83, 85-87, 96, 98, 99, 104, 105, 117, 121, 123, 59, 98		25	25	25							
142														
143	582-134		SOCKET, 16 PIN REF: A24, 25, 32		3	3	3	3	3	3	3	3	3	
144	582-153		SOCKET, 20 PIN A15		1	1	1	1	1	1	1	1	1	
145	066-830		RESISTOR, C.F., 10K, 1/4W, 5% R8, 18, 19, 30, 31, 58, 62, 63, 70, 81-83, 85-87, 96, 99, 104, 105, 117, 121, 123, 59, 98					25						
146														
147	283-105		SPACER, UNTHRD, PLAIN, .140 ID, .250 OD, .125 LG		1	1	1	1	1	1	1	1	1	
148	471-063		SCREW, MACH, PAN HD, XREC, 4-40 X 438		1	1	1	1	1	1	1	1	1	
149	474-500		SCREW, MACH., PAN HD., XREC, 4-40 X .312 LG										5	5
150	473-325		SCREW, PAN HD, 4-40 X .312 LG		5	5	5	5	5	5	5	5		
151	066-830		RESISTOR, C.F., 10K, 1/4W, 5% R8, 18, 19, 30, 31, 58, 59, 62, 63, 70, 80-83, 85-87, 96, 98, 99, 104, 105, 117, 121, 126						25	25	25	25		
152														
153	501-169		WASHER, FLAT, SMALL PATTERN #4		5	5	5	5	5	5	5	5		
154	502-002		WASHER, LOCK, HELICAL SPRING #4		1	1	1	1	1	1	1	1	1	
155	506-011		WASHER, BOWED		1	1	1	1	1	1	1	1	1	
156														
157	615-004		WIRE, SOLID, BARE, 24AWG					A/R	A/R	A/R	A/R	A/R	A/R	A/R
158	066-665		RESISTOR, C.F., 1K, 1/4W, 5% R12, 13, 14, 17, 29, 79, 114, 122						8	8	8	8	8	
159	066-826		RESISTOR, C.F., 2K, 1/4W, 5% R111						1	1			1	
160	066-720		RESISTOR, C.F., 3.3K, 1/4W, 5% R15										1	
161	143-981		JACK, PC TIP REF: J1-A,B, J2-A,B,C		5	5	5	5	5	5	5	5	5	
162	066-828		RESISTOR, C.F., 4.3K, 1/4W, 5% R20										1	
163														
164	602-044		PLUG SHORTING J1, 2		2	2	2	2	2	2	2	2	2	
NOTES:														
1 PRESTRESSED I.C.														
2 STATIC SENSITIVE, SPECIAL HANDLING														
REQUIRED														



Assembly No. 1400153-09V. Capstan Servo PWA, No. 15



Schematic No. 1400155N.
Capstan Servo PWA, No. 15
(Sheet 1 of 2)



000	HEX ADDRESS	010	020	030	040	050	060	070	INPUT ADDRESS	↓
A ₀									↓ 780	
A ₁									↓ SPEED ± 7%	
A ₂									↓ VAR	
A ₃									↓ P	
A ₄									↓ CT SERVO PERMIT	
A ₅									↓ CT PRESENT	
A ₆									↓ CT REC	
A ₇									↓ 95% ACQ.	
A ₈										
A ₉										

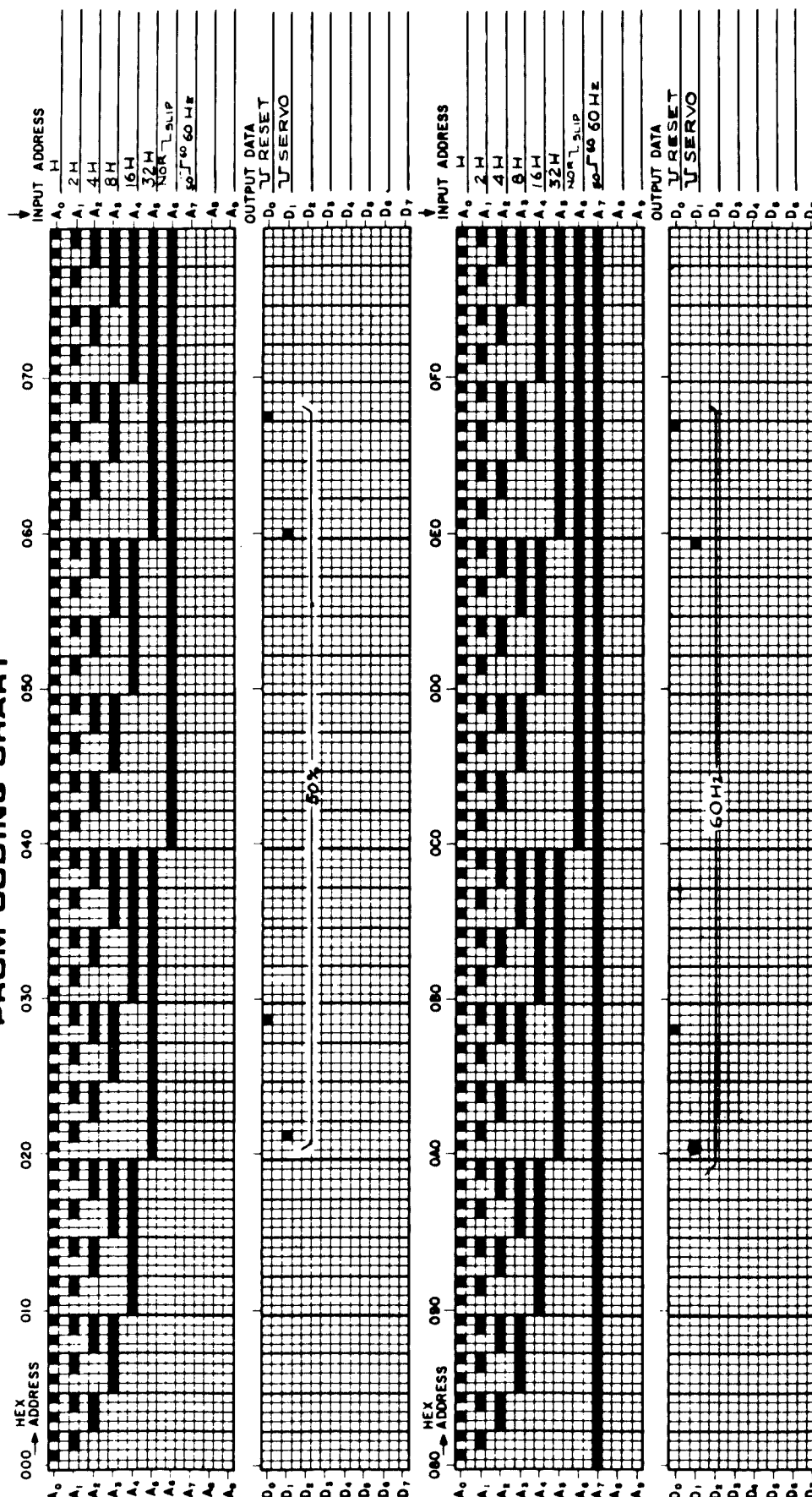
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A ₀									↓ 780	
A ₁									↓ SPEED ± 7%	
A ₂									↓ VAR	
A ₃									↓ P	
A ₄									↓ CT SERVO PERMIT	
A ₅									↓ CT REC	
A ₆									↓ 95% ACQ.	
A ₇										
A ₈										
A ₉										

000	HEX ADDRESS	010	020	030	040	050	060	070	OUTPUT DATA	↓
D ₀									↓ CT SERVO	
D ₁									↓ VARIABLE	
D ₂									↓ TSO	
D ₃									↓ LAST NORM	
D ₄									↓ TACH	
D ₅									↓ LOCK	
D ₆									↓ 1/2 FRAME	
D ₇									↓ COLOR FRAME ENABLE	

080	HEX ADDRESS	090	0A0	0B0	0C0	0D0	0E0	0F0	OUTPUT DATA	↓
D ₀									↓ CT SERVO	
D ₁									↓ VARIABLE	
D ₂									↓ TSO	
D ₃									↓ LAST NORM	
D ₄									↓ TACH	
D ₅									↓ LOCK	
D ₆									↓ 1/2 FRAME	
D ₇									↓ COLOR FRAME ENABLE	

PROM No. 1400332. Capstan Servo Logic PROM, A15

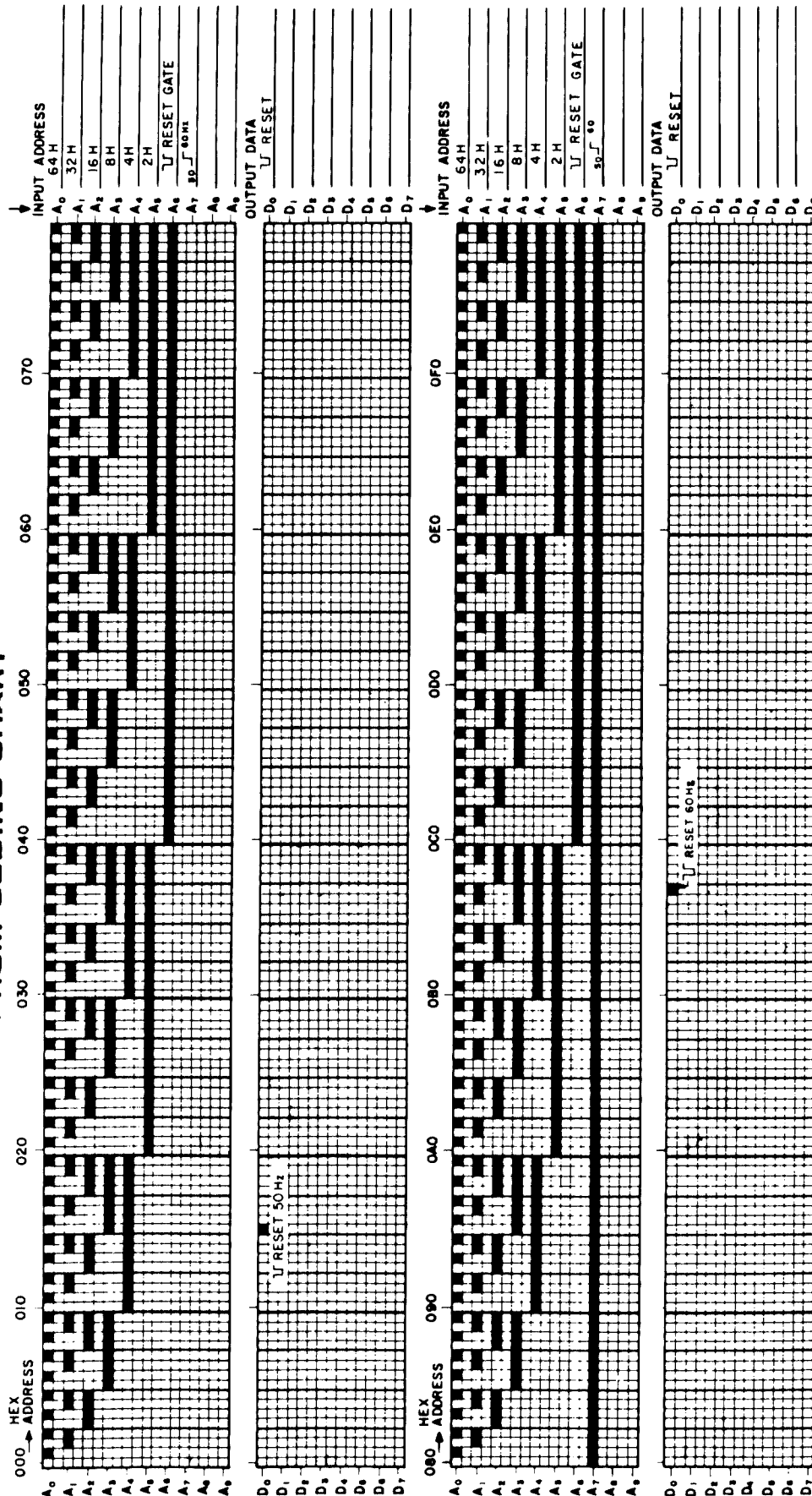
PROM CODING CHART



SCHEMATIC NO. 1400152
 SCHEMATIC REF. NO. A24
 NEXT ASSEMBLY NO. 1400150
 PROM NO./PART NO. 140033-01

PROM No. 1400333. Capstan Servo Timing PROM (Coarse), A24

PROM CODING CHART



SCHEMATIC NO. 1400152
 SCHEMATIC REF. NO. A25
 NEXT ASSEMBLY NO. 1400150
 PROM NO./PART NO. 1400334-01

PROM CODING CHART

HEX ADDRESS	000	010	020	030	040	050	060	070
A ₀								
A ₁								
A ₂								
A ₃								
A ₄								
A ₅								
A ₆								
A ₇								
A ₈								
A ₉								




HEX ADDRESS	080	090	0A0	0B0	0C0	0D0	0E0	0F0
D ₀								
D ₁								
D ₂								
D ₃								
D ₄								
D ₅								
D ₆								
D ₇								

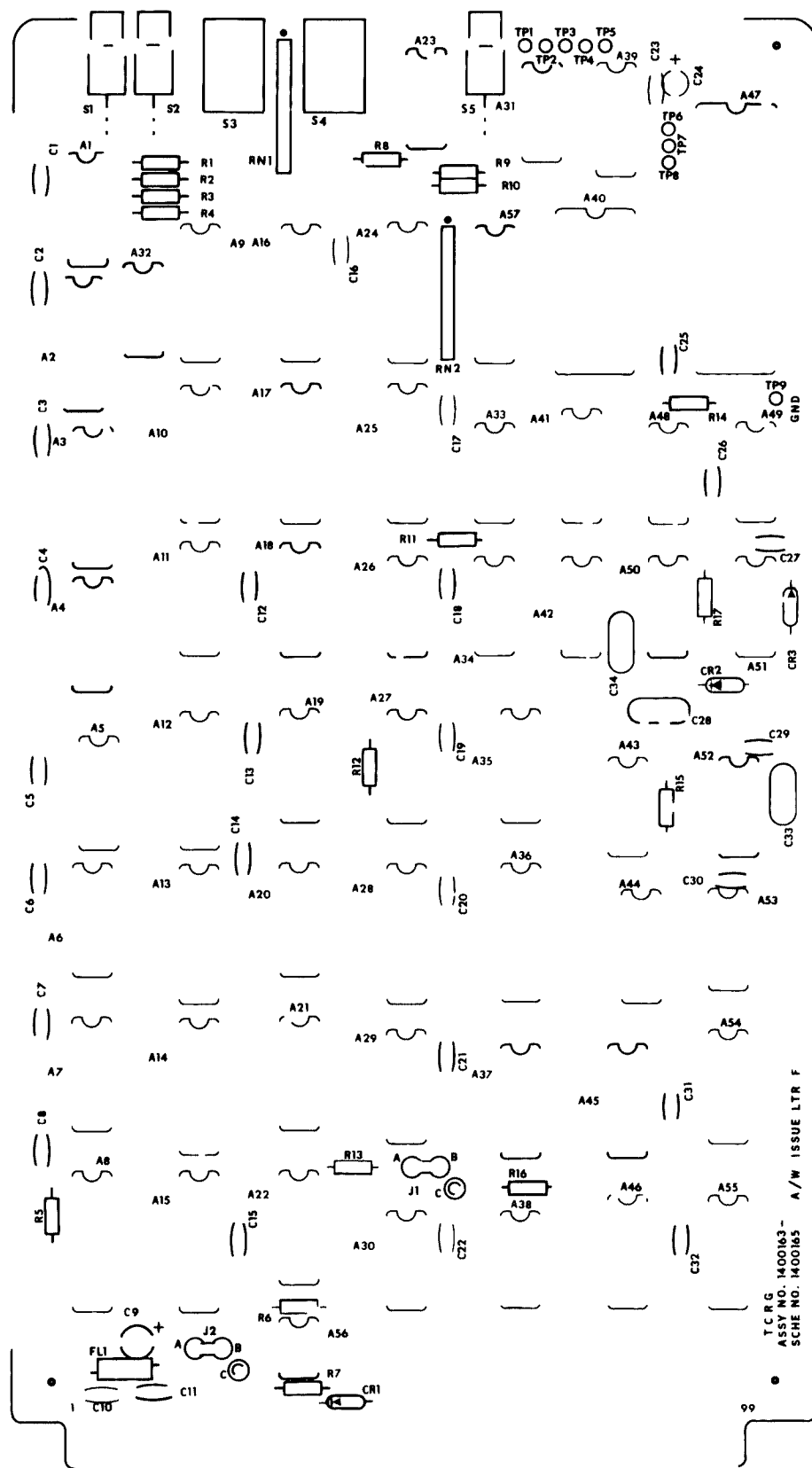
HEX ADDRESS	080	090	0A0	0B0	0C0	0D0	0E0	0F0
A ₀								
A ₁								
A ₂								
A ₃								
A ₄								
A ₅								
A ₆								
A ₇								
A ₈								
A ₉								

HEX ADDRESS	080	090	0A0	0B0	0C0	0D0	0E0	0F0
D ₀								
D ₁								
D ₂								
D ₃								
D ₄								
D ₅								
D ₆								
D ₇								

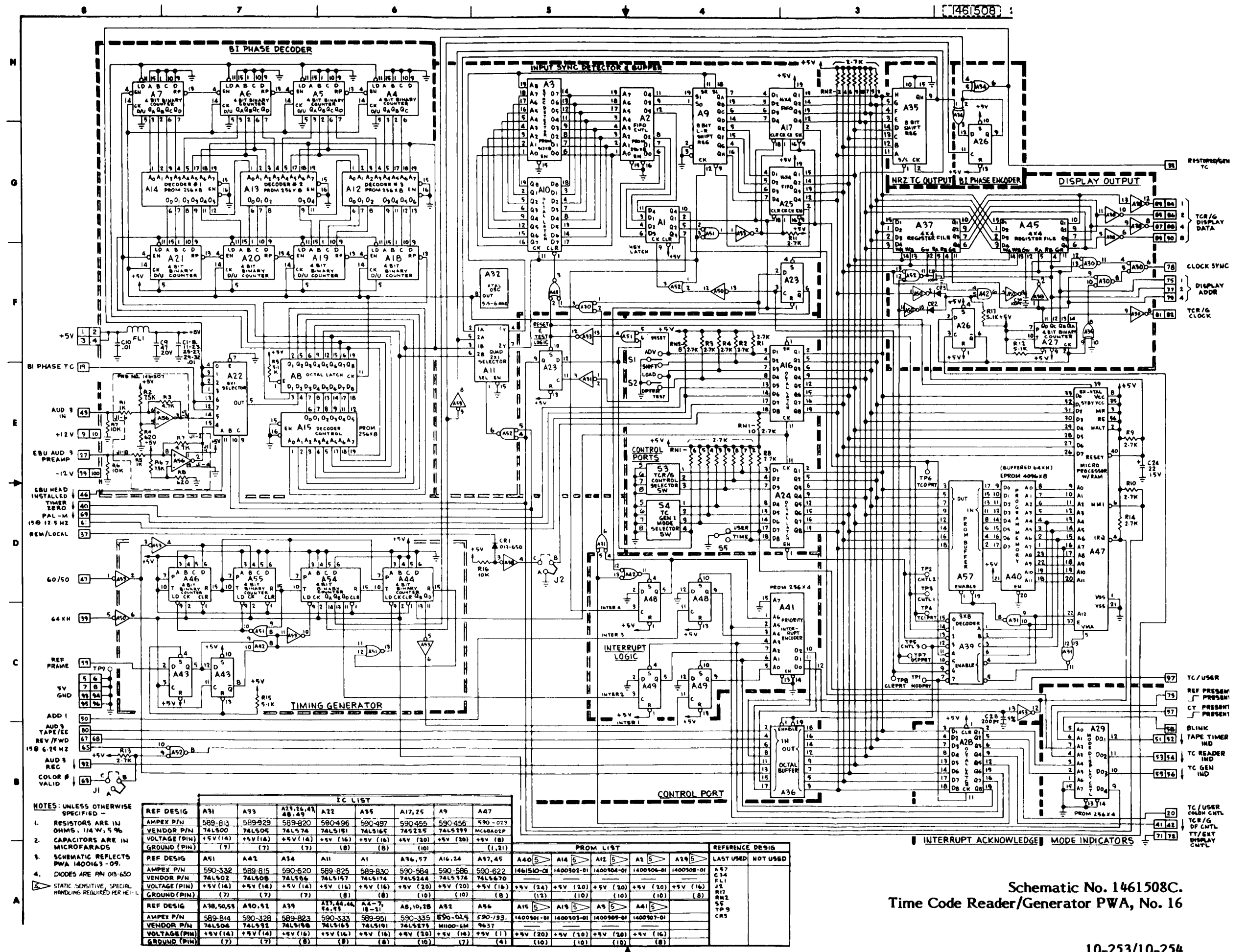
SCHEMATIC NO. 1400152
 SCHEMATIC REF. NO. A 32
 NEXT ASSEMBLY NO. 1400150
 PROM NO. / PART NO. 1400335-01

ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02	-03	-04	-05	-06	-07	-08	-09	
1				-01	-02	-03	-04	-05	-06	-07	-08	-09	
2	1400165	SCHEMATIC		-01	A	C	D	E	F	-	-	-	
3	1461508	SCHEMATIC								(-)	B		
4	1400251-02	KNOB, MACHINED	REF: S4	2	2	2	2	2	2	2	2	2	
5	1400300	PROM, TCRG PRGM	A40	-04	-05	-06	-05	-07	-07	-07	-	-	
5	1400301	PROM, BI PHASE DECODER CNTL	A15	-01	-01	-01	-01	-01	-01	-01	-01	-01	
7	1400302	PROM, BI PHASE DECODER 1	A14	-01	-01	-01	-01	-01	-01	-01	-01	-01	
8	1400303	PROM, BI PHASE DECODER 2	A13	-01	-01	-01	-01	-01	-01	-01	-01	-01	
9	1400304	PROM, BI PHASE DECODER 3	A12	-01	-01	-01	-01	-01	-01	-01	-01	-01	
10	1400305	PROM, SYNC DETECTOR	A3	-01	-01	-01	-01	-01	-01	-01	-01	-01	
11	1400306	PROM, FIFO CONTROL	A2	-01	-01	-01	-01	-01	-01	-01	-01	-01	
12	1400307	PROM, INTERRUPT CONTROL	A41	-01	-01	-01	-01	-01	-01	-01	-01	-01	
13	1400308	PROM, MODE DISPLAY CONTROL	A29	-01	-01	-01	-01	-01	-01	-01	-01	-01	
14	1461506-01	PWA, EBU & EXT. TIME CODE LINE REL											
15	1400003-01	SHIELD		1	1	1	1	1	1	1	1	1	
16	1400004-01	EJECTOR, HANDLE		1	1	1	1	1	1	1	1	1	
17	1400005-AS	LABEL		1	1	1	1	1	1	1	1	1	
18	506-011	WASHER, BOWED		1	1	1	1	1	1	1	1	1	
19	283-105	SPACER, PLAIN .140 ID, .250 OD, .125 LG.		1	1	1	1	1	1	1	1	1	
20	471-053	SCREW, MACH, PAN HD, #4-40 X .438 LG.		1	1	1	1	1	1	1	1	1	
21	474-500	SCREW, MACH, PAN HD, ASSEM WASH, #4-40 X .312 LG		5	5	5	5	5	5	5	5	5	
22	054-298	CAPACITOR, CER., MONO., .01uF, 100V, ± 20%	C35,36										
23	502-002	WASHER, SPLIT LOCK #4		1	1	1	1	1	1	1	1	1	
24	477-672	SCREW, SET #4-40 X .188 LG	(REF: ITEM 4)	2	2	2	2	2	2	2	2	2	
25	034-286	CAPACITOR, MICA 200PF 5%	C28	1	1	1	1	1	1	1	1	1	
26	037-954	CAPACITOR, TANT DIP 22UF 15V	C24	1	1	1	1	1	1	1	1	1	
27	037-892	CAPACITOR, TANT DIP 47UF 20V	C9	1	1	1	1	1	1	1	1	1	
28	064-116	CAPACITOR, CER DISC .01UF, C1-8,10-23,25-27,29-32		29	29	29	29	29	29	29	29	29	
29	034-177	CAPACITOR, MICA, 100PF, 500V, 5%	C33,34			2	2	2	2	2	2	2	
30	051-770	CHOKE, FERRITE	FL1	1	1	1	1	1	1	1	1	1	
31	066-818	RESISTOR, C.F., 470 OHMS, 1/4W, 5%	R18,19						2	-	-	-	
32	013-650	DIODE, 1W270	CR1,2,3	3	3	3	3	3	3	3	3	3	
33	039-231	RESISTOR, NETWORK 2.7K	RN1,2	2	2	2	2	2	2	2	2	2	
34	056-666	RESISTOR, C.F. 2.7K 1/4W 5%	R1-4,8-11,13,14	10	10	10	10	10	10	10	10	10	
35	066-669	RESISTOR, C.F., 4.7K OHMS, 1/4W, 5%	R17	1	1	1	1	1	1	1	1	1	
36	056-830	RESISTOR, C.F., 10K OHMS, 1/4W, 5%	R6,7,16	3	3	3	3	3	3	3	3	3	
37	066-842	RESISTOR, C.F., 5.1K OHMS, 1/4W, 5%	R5,12,15	3	3	3	3	3	3	3	3	3	

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739		LIST OF MATERIALS		LM-1400163		SHEET 2		P.V.			
ITEM NO	PART NUMBER	DESCRIPTION				REF DESIG	QTY REQD PER DASH NUMBER								
							-01	-02	-03	-04	-05	-06	-07	-08	-09
33	1461510-01	PROM, TCRG PRGM  A40													
35	589-813	INTEGRATED CIRCUIT, 74LS00, PRESTRESSED A31					1	1	1	1	1	1	1	1	1
40	590-332		74LS02		A51		1	1	1	1	1	1	1	1	1
41	589-814		74LS04		A38,50,53		3	3	3	3	3	3	3	3	3
42	589-929		74LS05		A33		1	1	1	1	1	1	1	1	1
43	589-815		74LS08		A42		1	1	1	1	1	1	1	1	1
44	590-328		74LS32		A30,52		2	2	2	2	2	2	2	2	2
45	589-820		74LS74		A23,25,43,49,49		5	5	5	5	5	5	5	5	5
46	590-620		74LS86		A34		1	1	1	1	1	1	1	1	1
47	589-823		74LS136		A39		1	1	1	1	1	1	1	1	1
48	590-496		74LS151		A22		1	1	1	1	1	1	1	1	1
49	589-825		74LS157		A11		1	1	1	1	1	1	1	1	1
50															
51															
52	590-333		74LS163		A27,44,46,54,55		5	5	5	5	5	5	5	5	5
53	590-437		74LS165		A35		1	1	1	1	1	1	1	1	1
54	589-830		74LS174		A1		1	1	1	1	1	1	1	1	1
55	589-951		74LS191		A4-7,19-21		5	5	5	5	5	5	5	5	5
56	590-455		74S225		A17,25		2	2	2	2	2	2	2	2	2
57	590-584		74LS244		A36,57		2	2	2	2	2	2	2	2	2
58	590-335		74LS273		A8,10,28		3	3	3	3	3	3	3	3	3
59	590-456		74LS299		A9		1	1	1	1	1	1	1	1	1
60	590-586		74LS374, PRESTRESSED		A16,24		2	2	2	2	2	2	2	2	2
61	590-024		M1100-6M		A32		1	1	1	1	1	1	1	1	1
62	590-023		MC68A02P		A47		1	1	1	1	1	1	1	1	1
63	590-662		74LS670, PRESTRESSED		A37,45		2	2	2	2	2	2	2	2	2
64	590-193	INTEGRATED CIRCUIT, 9637 A56					1	1	1	1	1	1	1	1	1
65	280-664	SPACER, PLAIN, #4, .250 LG													
66	473-327	SCREW, MACH. PAN HD, 4-40 X .500 LG													
67	602-044	PLUG, SHORTING J1,2					2	2	2	2	2	2	2	2	2
68	143-991	CONNECTOR, JACK REF: J1,2					6	6	6	6	6	6	6	6	6
69	1461510-02	PROM TCRG PRGM  A40													
70	582-165	SOCKET, I.C. 40 PIN DIP REF:A47					1	1	1	1	1	1	1	1	1
71	582-159		24 PIN DIP		REF:A40		1	1	1	1	1	1	1	1	1
72	582-153		20 PIN DIP		REF:A2,3,8-10,12-17,24,25,28,35,57		16	16	16	16	16	16	16	16	16
73	582-134		16 PIN DIP		REF:A1,4-7,11,18-22,27,29,35,37,39,41,44-46,54,55		22	22	22	22	22	22	22	22	22
74	582-133		14 PIN DIP		REF:A23,26,30-34,38,42,43,48-53		16	16	16	16	16	16	16	16	16
75	582-141	SOCKET, I.C. 8 PIN DIP REF:A56					1	1	1	1	1	1	1	1	1
76															
77	122-494	SWITCH, ROTARY S3,4					2	2	2	2	2	2	2	2	2
78	119-723	SWITCH, TOGGLE, SPDT (ON)OFF(ON) S1,2					2	2	2	2	2	2	2	2	2
79	119-724	SWITCH, TOGGLE, SPDT (ON)NONE(ON) S5					1	1	1	1	1	1	1	1	1
80		SLEEVING, SHRINK, CLEAR REF:FL1				A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
81	187-361	TEST LUG TP1-9					9	9	9	9	9	9	9	9	9
82		NOTE:  STATIC SENSITIVE. SPECIAL HANDLING REQUIRED													



Assembly No. 1400163-09L. Time Code Reader/Generator PWA, No. 16



[illegible][illegible]

HEX	DECIMAL	000	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025	026	027	028	029	030	031	032	033	034	035	036	037	038	039	040	041	042	043	044	045	046	047	048	049	050	051	052	053	054	055	056	057	058	059	060	061	062	063	064	065	066	067	068	069	070	071	072	073	074	075	076	077	078	079	080	081	082	083	084	085	086	087	088	089	090	091	092	093	094	095	096	097	098	099	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451
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[illegible]

NOTES	FROM PART NO. 18	1400301-01	589-676
1.	FROM AMPEX PART NO.	1400301	
2.	PROGRAM AND MARK PER SC	1400301	
3.	PAPER TAPE PT	1400301-01	
4.	AVAILABLE FROM AVSD DOCUMENT CONTROL.		
5.	PROM SIGNATURE IS 922902		

ADDRESS:
HEX 000

DECIMAL	0	08	002	048	064	080	096	112	INPUT ADDRESS
A0									CARRY
A1									1
A2									2
A3									4
A4									8
A5									16
A6									32
A7									N
A8									
A9									

OUTPUT DATA	1
D0	
D1	
D2	
D3	
D4	
D5	
D6	
D7	

HEX	DECIMAL	128	144	160	176	192	208	224	240	INPUT ADDRESS
A0										CARRY
A1										1
A2										2
A3										4
A4										8
A5										16
A6										32
A7										N
A8										
A9										

OUTPUT DATA	1
D0	
D1	
D2	
D3	
D4	
D5	
D6	
D7	

HEX	DECIMAL	128	144	160	176	192	208	224	240	INPUT ADDRESS
A0										CARRY
A1										1
A2										2
A3										4
A4										8
A5										16
A6										32
A7										N
A8										
A9										

OUTPUT DATA	1
D0	
D1	
D2	
D3	
D4	
D5	
D6	
D7	

HEX	DECIMAL	128	144	160	176	192	208	224	240	INPUT ADDRESS
A0										CARRY
A1										1
A2										2
A3										4
A4										8
A5										16
A6										32
A7										N
A8										
A9										

OUTPUT DATA	1
D0	
D1	
D2	
D3	
D4	
D5	
D6	
D7	

HEX	DECIMAL	128	144	160	176	192	208	224	240	INPUT ADDRESS
A0										CARRY
A1										1
A2										2
A3										4
A4										8
A5										16
A6										32
A7										N
A8										
A9										

OUTPUT DATA	1
D0	
D1	
D2	
D3	
D4	
D5	
D6	
D7	

HEX</

Q112344567789AABCDDEFFGGH
00000000000000000000001111
1. FROM PART NO IS 1400303-01
2. MAKE FROM AMPEX PART NO. 589-676
3. PROGRAM AND MARK PER SC 1400303
4. PAPER TAPE PT 1400303-01
5. FROM SIGNATURE IS -9HL23.

PROM No. 1400303. B1 ϕ Decoder 2 PROM, A13

PROM CODING CHART

ADDRESS:
HEX 100
DECIMAL 256

A0	110	272	120	288	130	304	140	320	150	336	160	352	170	368	INPUT ADDRESS
A1															A0
A2															A1
A3															A2
A4															A3
A5															A4
A6															A5
A7															A6
A8															A7
A9															A8

D0															OUTPUT DATA
D1															D0
D2															D1
D3															D2
D4															D3
D5															D4
D6															D5
D7															D6

HEX 100
DECIMAL 256

A0	180	432	190	448	200	464	210	480	220	496	230	512	240	528	INPUT ADDRESS
A1															A0
A2															A1
A3															A2
A4															A3
A5															A4
A6															A5
A7															A6
A8															A7
A9															A8

D0															OUTPUT DATA
D1															D0
D2															D1
D3															D2
D4															D3
D5															D4
D6															D5
D7															D6

HEX 100
DECIMAL 256

A0	180	432	190	448	200	464	210	480	220	496	230	512	240	528	INPUT ADDRESS
A1															A0
A2															A1
A3															A2
A4															A3
A5															A4
A6															A5
A7															A6
A8															A7
A9															A8

1. PROM PART NO. 18
2. MAKE FROM AMPLEX PART NO.
3. PROGRAM AND MARK PER 3C
4. PAPER TAPE PT

AVAILABLE FROM AVSD DOCUMENT CONTROL

ADDRESS:
HEX 000
DECIMAL 0

[illegible]

- 00000000000000000000000000000000
- | | FROM PART NO IS | 1400306-01 |
|----|---------------------------------------|------------|
| 1. | MAKE FROM AMPER PART NO. | 589-676 |
| 2. | PROGRAM AND MARK PER SC | 1400306- |
| 3. | PAPER TAPE PT | 1400306-01 |
| 4. | AVAILABLE FROM AVSD DOCUMENT CONTROL. | |
| 5. | FROM SIGNATURE IS | 2APSLP |

PROM No. 1400306. FIFO Control PROM, A2

ADDRESS:
HEX 000
DECIMAL 0

[illegible]

- NOTES
1. FROM PART NO. 18 1400307-01
 2. MARK FROM AMPLEX PART NO. 589-676
 3. PROGRAM AND MARK PER SC 1400307
 4. PAPER TAPE PT 1400307-01
AVAILABLE FROM AVID DOCUMENT CONTROL.
 5. FROM SIGNATURE IS AP17P6
 6. ■ INDICATES A DATA OUTPUT 0.

PROM No. 1400307. Interrupt Control PROM, A41

ADDRESS:
HEX 000
DECIMAL 0

[illegible][illegible]

HEX DECIMAL	HEX DATA																INPUT ADDRESS	
	000	004	008	00C	010	014	018	01C	020	024	028	02C	030	034	038	03C		
A0	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	A0	BLINK
A1	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	A1	CT PRESENT
A2	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	A2	IC PRESENT
A3	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	A3	REF PRESENT
A4	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	A4	1
A5	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	A5	2
A6	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	A6	GROUND
A7	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	A7	TCR 0 1
A8	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	A8	TCG 1 0
A9	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	A9	TCG 1 1

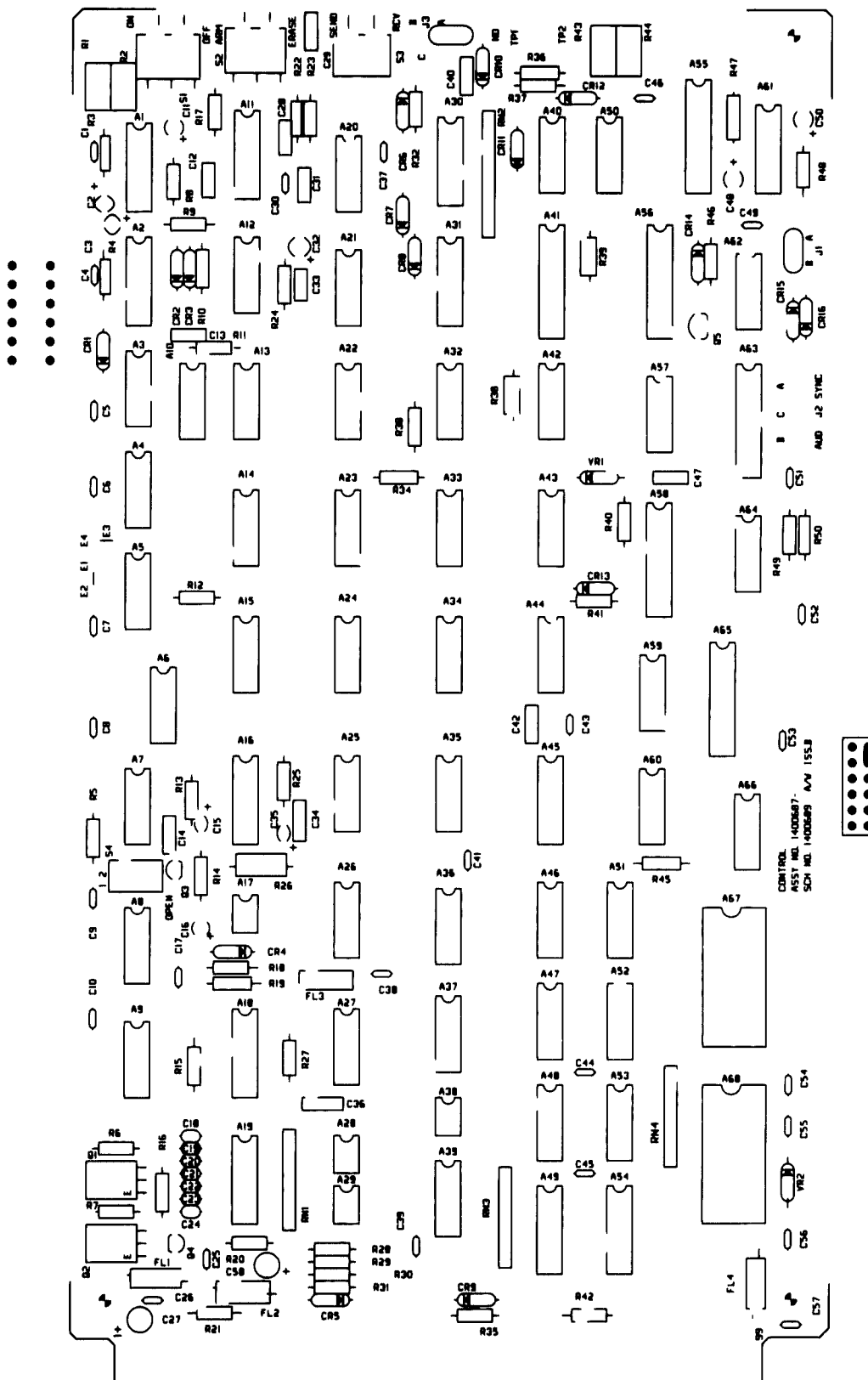
[illegible]

1. FROM PART NO IS 1400308-01
2. FROM AMPX PART NO 589-676
3. PROGRAM AND MARK PER SC 1400308
4. TAPE TYPE PT 1400308-01
5. PROM SIGNATURE IS 168A6A
6. * INDICATES AN OUTPUT DATA 0.

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01											
1															
2	1400689	SCHEMATIC		(-)											
3	1400003-01	SHIELD		1											
4	1400004-01	HANDLE		1											
5	1400005-AT	LABEL		1											
6	051-770	INDUCTOR, FILTER	FL1-4	4											
7	1400312	PROM MODE CONTROL ENCODER	A41	-02											
8	1400313	PROM, MODE ENCODER	A31	-01											
9	1451584	PROM, RECORD & TAPE/EE CONTROL ENCODER	A67	-01											
10	1400344	PROM, RECORD ENABLE ENCODER	A68	-02											
11															
12	037-893	CAPACITOR, TANT., 15uf, 20V	C3	1											
13	037-591	CAPACITOR, TANT., DIP, 1uf, 35V.	C2, 11, 48, 50	4											
14	037-298	↑ 47uf, 6V.	C32	1											
15	037-892	↑ 47uf, 20V.	C27, 58	2											
16	037-908	↓ 4.7uf, 35V.	C15, 16	2											
17	037-954	CAPACITOR, TANT., DIP 22uf, 15V.	C35	1											
18															
19	064-307	CAPACITOR CER., MONO., .22uf, 100V	C42	1											
20	064-116	CAPACITOR CER., MONO., .01uf, 50V	C1, 4-10, 17-26, 30, 37-39, 41, 43-46, 49, 51-57	33											
21															
22	030-966	CAPACITOR CER., MONO., .01uf, 200V	C31, 34, 36, 40	4											
23	064-314	↑ 1uf, 50V	C13, 14, 28, 47	4											
24	064-309	↑ .47uf,	C12	1											
25	064-062	↓ .1uf,	C29	1											
26	064-300	CAPACITOR CER., MONO., .022uf,	C33	1											
27															
28	013-599	DIODE SILICON, SWITCHING, 1/2 W	CR4, 14	2											
29	013-650	DIODE, GERMANIUM (CD 498) 1/2 W	CR1-3, 5-13, 15, 16	14											
30	013-370	DIODE, ZENER, 6.8V, 1W, 1N4736A	VR2	1											
31	013-865	DIODE, ZENER, 5.1V, 1W, 1N4734	VR1	1											
32															
33	014-780	TRANSISTOR, NPN, MPS 6514	Q3, 4, 5	3											
34	580-778	TRANSISTOR, NPN, MJE 802	Q1, 2	2											
35															
36															
37															

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1400687	SHEET 1	REV									
ITEM NO	PART NUMBER	DESCRIPTION			REF DESIG	QTY REQD PER DASH NUMBER											
						-01											
38	039-223	RESISTOR, NETWORK, 1K OHM,			RN3,4	2											
39	039-231	RESISTOR, NETWORK, 2.7K OHM,			RN2	1											
40	039-244	RESISTOR, NETWORK, 100K OHM,			RN1	1											
41																	
42	075-010	RESISTOR, VAR., 50K, 1/2W			R1,2,43,44	4											
43																	
44	041-003	RESISTOR, COMP., 100 OHMS, 1/2W, 5%			R26	1											
45	056-663	RESISTOR, C.F., 220 OHMS, 1/4W, 5%			R24	1											
46	066-665	1K OHMS,			R7,10,12,16,32,35,37 39,40,46,50	11											
47	066-842	5.1K OHMS,			R5,6,17,38	4											
48	066-717	47K OHMS,			R25	1											
49	066-822	910 OHMS,			R21,35	2											
50	066-826	2K OHMS,			R3,8,47,48	4											
51	056-830	10K OHMS,			R20	1											
52	066-812	100 OHMS,			R42	1											
53	066-847	33K OHMS,			R22	1											
54	066-849	100K OHMS,			R18,19	2											
55	066-856	15K OHMS,			R9	1											
56	066-873	20K OHMS,			R15,27-31	6											
57	066-845	24K OHMS,			R13	1											
58	066-866	27K OHMS,			R4	1											
59	076-039	20 OHMS,			R11,34	2											
60	066-666	2.7K OHMS,			R23,41,45	4											
61	066-668	RESISTOR, C.F., 4.7K OHMS, 1/4W, 5%			R14,33	2											
62																	
63																	
64	589-813	INTEGRATED CIRCUIT, 74LS00			A24,26,27	3											
65	586-075	7400			A35	1											
66	586-109	7402			A42	1											
67	590-332	74LS02			A9,14,15,66	4											
68	590-609	7404			A23,33,40,43	1											
69	589-815	74LS08			A7,21,37,39	4											
70	589-816	74LS10			A13,22	2											
71	590-536	7406			A60	1											
72	590-325	7427			A32	1											
73	590-328	74LS32			A3,25,34,53	4											
74	589-820	74LS74			A12,36,50,57,59,62,64	7											
75	590-535	74164			A4	1											
76	590-135	74175			A30,45,49,54	4											
77	590-575	74180			A20	1											
78	589-934	74LS221			A1,2,11,16,61	5											
79	589-814	74LS04			A46	1											
80	587-752	74LS54			A47,48,52,53	4											
81	590-335	74LS273			A55,56,58,63,65	5											
82	589-935	INTEGRATED CIRCUIT, 74LS293			A5,6	2											

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1400687	SHEET 3		REV					
ITEM NO	PART NUMBER		DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER									
					-01									
83	590-015		INTEGRATED CIRCUIT, 75411	A10	1									
84	590-324	↑	754518	A17,28,29,38	4									
85	590-331	↓	CD4009	A18,19	2									
86	589-454		INTEGRATED CIRCUIT, 7474	A8,44	2									
87														
88	582-148		SOCKET, I.C., 24 DIP.,	A67,68	2									
89	582-153		SOCKET, I.C., 20 DIP.,	A41	1									
90	582-134		SOCKET, I.C., 16 DIP.,	A31	1									
91														
92														
93	119-425		SWITCH, TOGGLE DPDT, 7203	S3	1									
94	119-578		SWITCH, TOGGLE SPDT, CENTER OFF, 7105A	S2	1									
95	119-613		SWITCH, ASSY. 2 X SPST, ROCKER	S4	1									
96	120-967		SWITCH, TOGGLE SPDT, 7101A	S1	1									
97														
98	143-981		CONNECTOR JACK, J1-A,B; J2-A,B,C; J3-A,B,C,D		9									
99	602-044		SHORTING PLUG, J1,2,3		3									
100	187-259		TEST POINT TP1,2		2									
101	283-105		SPACER, PLAIN .140 ID X .250 OD X .125 LG		1									
102	471-063		SCREW, PAN HD., 4-40 X .438 LG.		1									
103	474-500		SCREW, PAN HD., X REC., 4-40 X .312 LG		5									
104	502-002		WASHER, SPLIT LOCK #4		1									
105	506-011		WASHER, BOWED		1									
106														
107														
108	600-232		TUBING, TEFLON, 24 AWG.	A/R										
109	615-004		WIRE, SOLID, 24 AWG	A/R										
110			WIRE, 24 AWG	A/R										
111														
112														
113														
114														
115			△ STATIC SENSITIVE, SPECIAL HANDLING											
116			REQUIRED											
117														
118														
119														
120														
121														
122														
123														
124														
125														
126														
127														

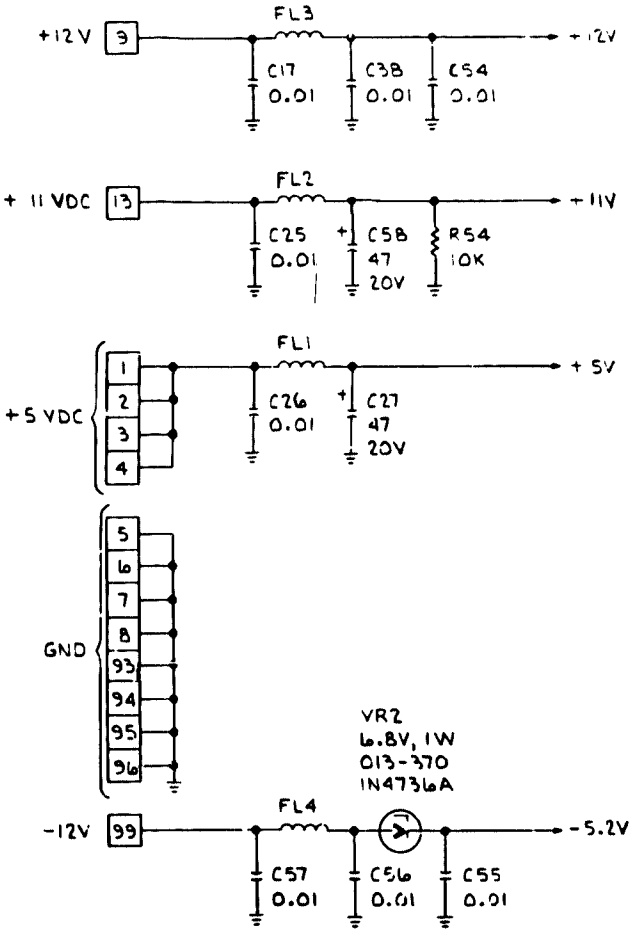


Assembly No. 1400687-01 — Control PWA, No. 17

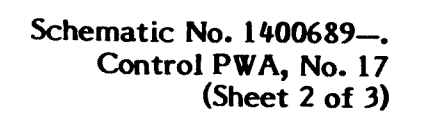
I.C. LIST									
REFERENCE DESIGNATION	A1,2,11,16,161	A3,25,34,51	A4	A5,6	A7,21,37,39	A8,44	A9,14,15,16,16	A10	A12,36,50,57,59,62,64
AMPEX P/N	589-934	590-328	590-535	589-935	589-815	589-454	590-332	590-015	589-820
VENDOR P/N	74LS221	74LS32	74164	74LS393	74LS08	7474	74LS02	75411	74LS74
VOLTAGE (PIN)	(16)	(14)	(14)	(14)	(14)	(14)	(14)	(14)	(14)
GROUND (PIN)	(8)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)
REFERENCE DESIGNATION	A13,22	A17,28,29,38	A18,19	A20	A23,33,40,43	A24,26,27	A30,45,49,54	A31	A32
AMPEX P/N	589-816	590-324	590-331	590-575	590-609	589-813	590-135	1400313	590-325
VENDOR P/N	74LS10	75451B	CD4009	74180	7404	74LS00	74175		7427
VOLTAGE (PIN)	(14)	(8)	(1) + 5V, (16) + 11V	(14)	(14)	(14)	(16)	(16)	(14)
GROUND (PIN)	(7)	(4)	(8)	(7)	(7)	(7)	(8)	(8)	(7)
REFERENCE DESIGNATION	A35	A41	A42	A46	A47,48,52,53	A55,56,58,63,65	A60	A67	A68
AMPEX P/N	586-075	1400312-02	586-109	589-814	587-752	590-335	590-536	1451584-01	1400344-02
VENDOR P/N	7400		7402	74LS04	74LS54	74LS273	7406		
VOLTAGE (PIN)	(14)	(20)	(14)	(14)	(14)	(20)	(14)	(24)	(24)
GROUND (PIN)	(7)	(10)	(7)	(7)	(7)	(10)	(7)	(12)	(12)

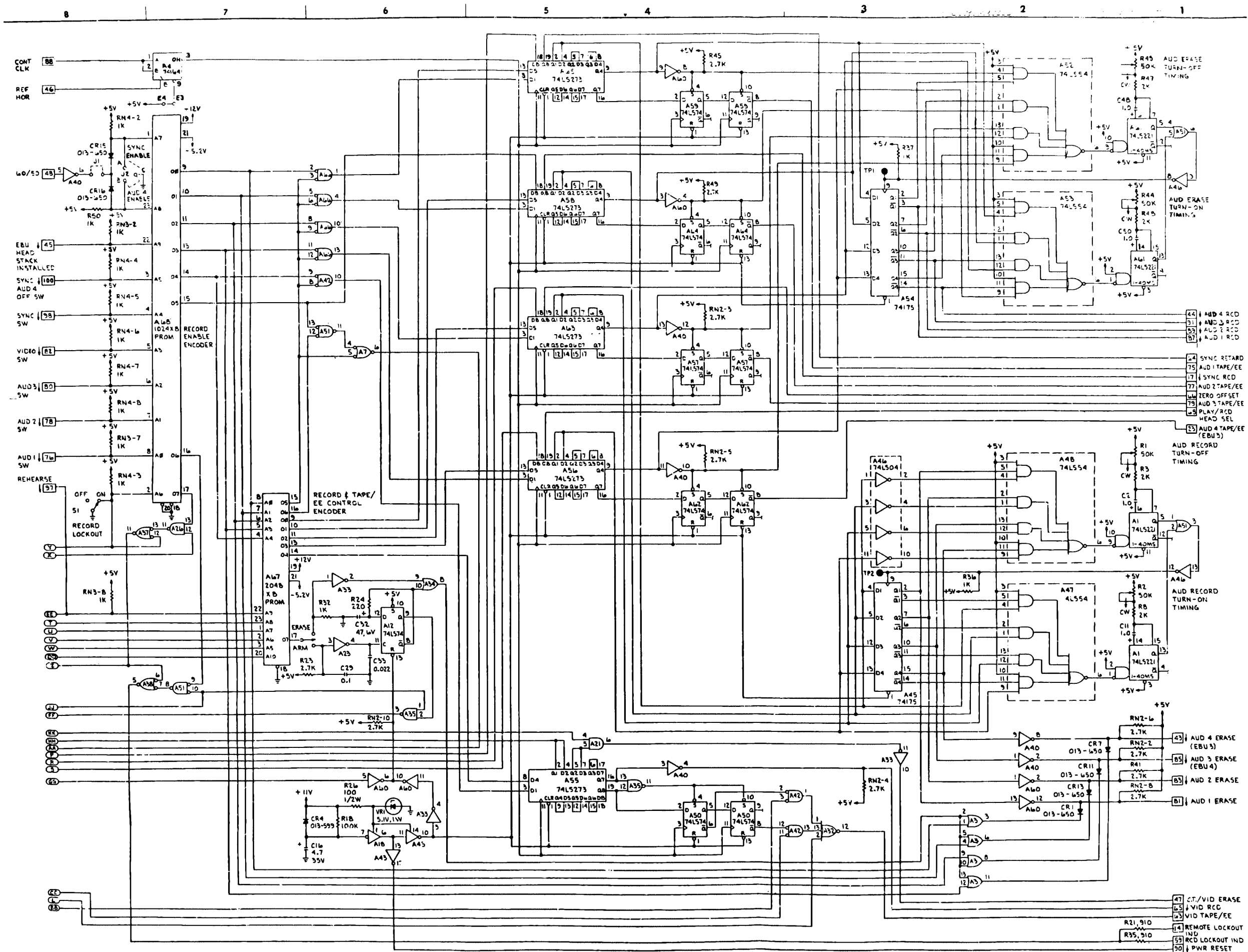
NOTES: UNLESS OTHERWISE SPECIFIED
1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
2. CAPACITANCE VALUES ARE IN MICROFARADS.
3. SCHEMATIC REFLECTS PWA 1400687-01
▶ STATIC SENSITIVE; SPECIAL HANDLING REQUIRED PER HEI-1.

REFERENCE DESIGNATIONS	
LAST USED	NOT USED
A68	
C58	
CR16	
E4	
FL4	
J3	
Q5	
R50	
RN4	
S4	
VR2	



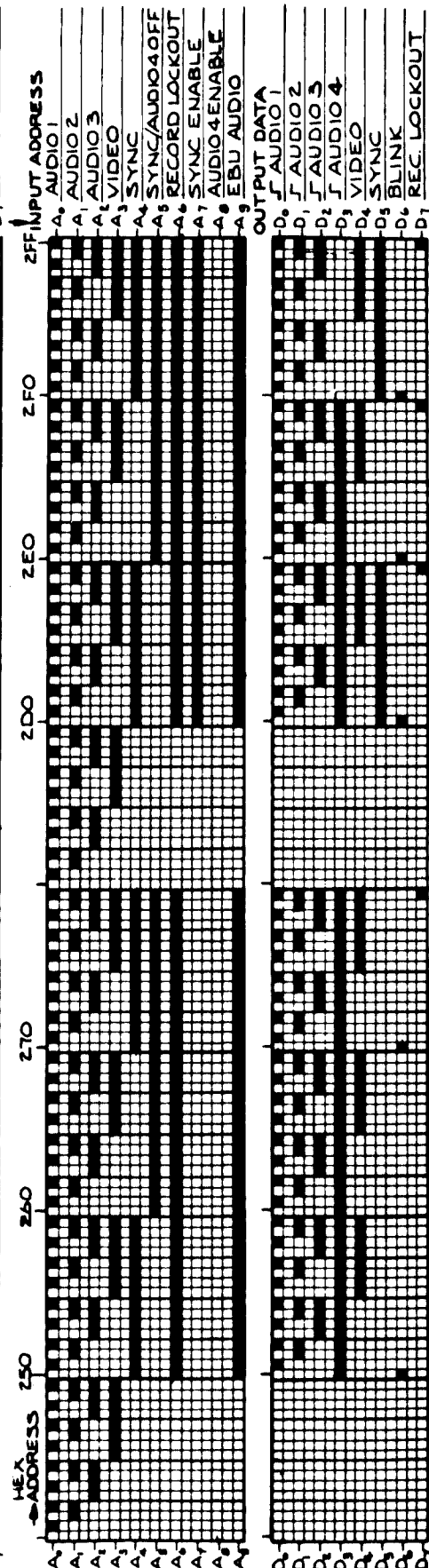
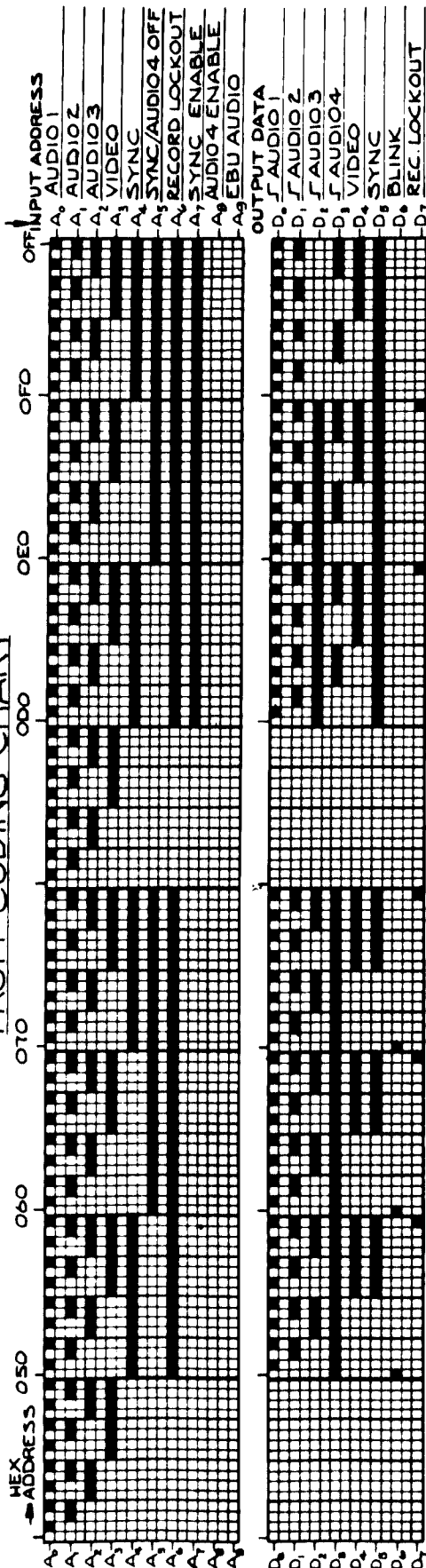
Schematic No. 1400689—
Control PWA, No. 17
(Sheet 1 of 3)





Schematic No. 1400689-
Control PWA, No. 17
(Sheet 3 of 3)

PROM CODING CHART



SCHEMATIC NO. 1400172
SCHEMATIC REF NO. A62
NEXT ASSEMBLY NO. 1400170
PROM NO. / PART NO. 1400344-02

PROM CODING CHART															
ADDRESS:		210		220		230		240		250		260		270	
HEX		598		5A4		5B0		5C6		5D2		5E8		5F4	
DECIMAL		512		528		544		560		576		592		608	
A0		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
A1		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
A2		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
A3		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
A4		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
A5		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
A6		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
A7		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
A8		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
A9		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
D0		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
D1		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
D2		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
D3		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
D4		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
D5		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
D6		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
D7		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
HEX DATA D0-D3		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
HEX DATA D4-D7		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
INPUT ADDRESS		A0	A1	A2	A3	A4	A5	A6	A7	A8	A9	D0	D1	D2	D3
OUTPUT DATA		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
INSERT		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
AUDIO 1		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
EE/TAPE		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
VIDEO		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
RECORD		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
SYNC RECORD		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
SPOT ERASE ENABLE		00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000

PROM No. 1451584. Record and Tape EE Control Encoder, A61 (Sheet 3 of 8)

ADDRESS:
HEX 300
DECIMAL 768

[illegible]

PROM CODING CHART

ADDRESS: HEX DECIMAL	500 1280	510 1296	520 1312	530 1328	540 1344	550 1360	560 1376	570 1392	INPUT ADDRESS
A0									A0
A1									A1
A2									A2
A3									A3
A4									A4
A5									A5
A6									A6
A7									A7
A8									A8
A9									A9
A10									A10
D0									D0
D1									D1
D2									D2
D3									D3
D4									D4
D5									D5
D6									D6
D7									D7
HEX DATA D0-D3	FEDCBA9876543210FEDCBA9876543210FEDCBA9876543210								HEX DATA D0-D3
HEX DATA D4-D7	FF								HEX DATA D4-D7
ADDRESS: HEX DECIMAL	500 1280	510 1296	520 1312	530 1328	540 1344	550 1360	560 1376	570 1392	INPUT ADDRESS
A0									A0
A1									A1
A2									A2
A3									A3
A4									A4
A5									A5
A6									A6
A7									A7
A8									A8
A9									A9
A10									A10
D0									D0
D1									D1
D2									D2
D3									D3
D4									D4
D5									D5
D6									D6
D7									D7
HEX DATA D0-D3	FEDCBA9876543210FEDCBA9876543210FEDCBA9876543210								HEX DATA D0-D3
HEX DATA D4-D7	FF								HEX DATA D4-D7

PROM No. 1451584. Record and Tape EE Control Encoder, A61 (Sheet 6 of 8)

[1451584]

PROM CODING CHART

ADDRESS:

HEX
DECIMAL

600
1536

610
1552

620
1568

630
1584

640
1600

650
1616

660
1632

670
1648

A0																		A0	AUDIO 1
A1																		A1	2
A2																		A2	3
A3																		A3	4
A4																		A4	VIDEO ENABLE
A5																		A5	MODE 1
A6																		A6	MODE 2
A7																		A7	AUDIO TAPE/EE
A8																		A8	VIDEO TAPE/EE
A9																		A9	REHEARSE
A10																		A10	INSERT
D0																		D0	AUDIO 1 EE/TAPE
D1																		D1	2
D2																		D2	3
D3																		D3	4
D4																		D4	VIDEO EE/TAPE
D5																		D5	RECORD
D6																		D6	SYNC RECORD
D7																		D7	SPOT ERASE ENABLE
HEX DATA D0-D3																			
HEX DATA D4-D7																			
580																		A0	1
581																		A1	2
582																		A2	3
583																		A3	4
584																		A4	VIDEO ENABLE
585																		A5	MODE 1
586																		A6	MODE 2
587																		A7	AUDIO TAPE/EE
588																		A8	VIDEO TAPE/EE
589																		A9	REHEARSE
590																		A10	INSERT
591																		D0	AUDIO 1 EE/TAPE
592																		D1	2
593																		D2	3
594																		D3	4
595																		D4	VIDEO EE/TAPE
596																		D5	RECORD
597																		D6	SYNC RECORD
598																		D7	SPOT ERASE ENABLE
HEX DATA D0-D3																			
HEX DATA D4-D7																			

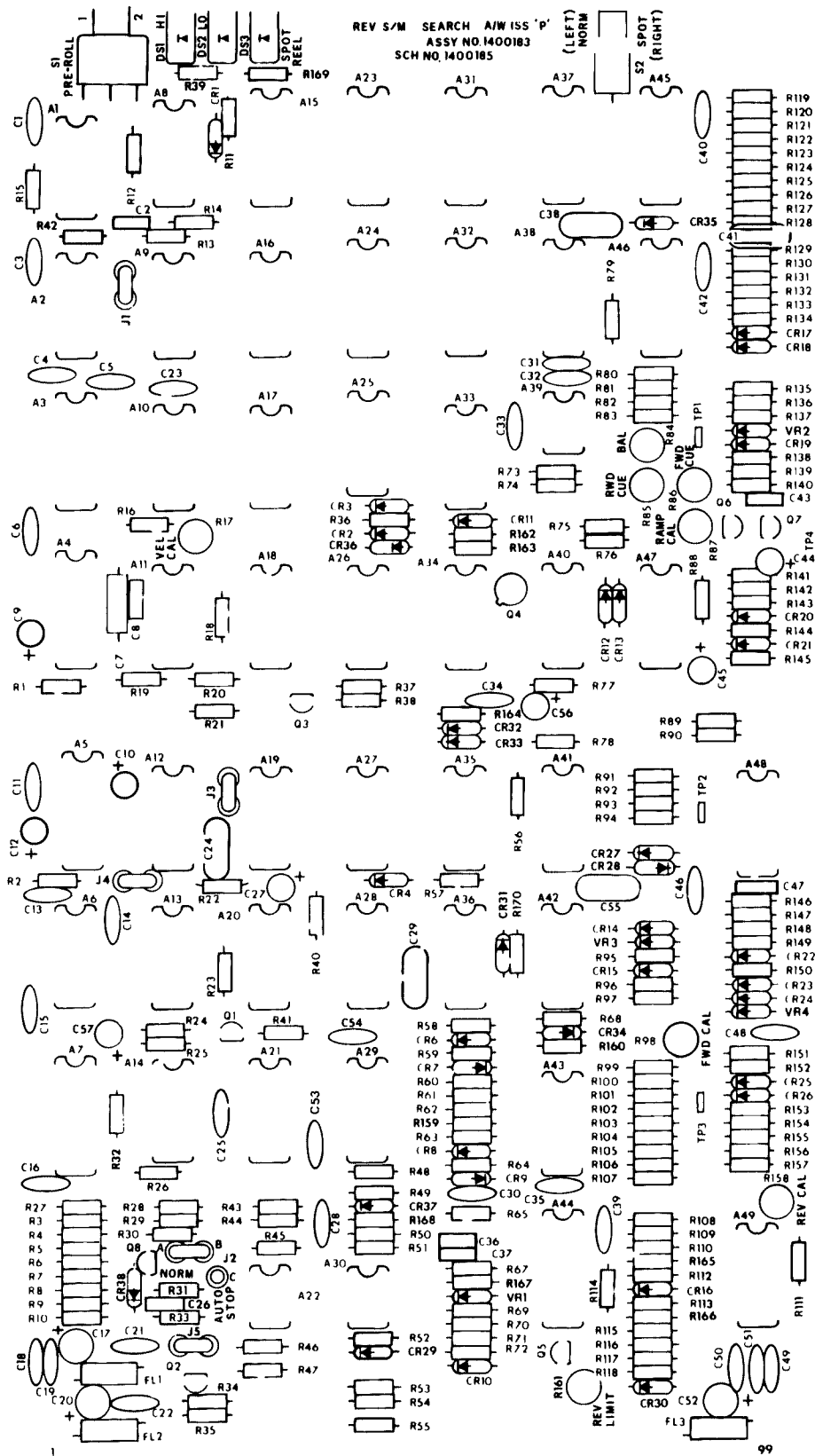
ADDRESS:		PROM CODING CHART																INPUT ADDRESS	
HEX	DECIMAL	700	702	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860
A0	1792																	A0	1
A1	1794																	A1	2
A2	1796																	A2	3
A3	1798																	A3	4
A4	1800																	A4	VIDEO ENABLE
A5	1802																	A5	MODE 1
A6	1804																	A6	MODE 2
A7	1806																	A7	AUDIO TAPE/EE
A8	1808																	A8	VIDEO TAPE/EE
A9	1810																	A9	REHEARSE
A10	1812																	A10	INSERT
D0	1814																	D0	AUDIO 1 EE/TAPE
D1	1816																	D1	AUDIO 2
D2	1818																	D2	3
D3	1820																	D3	4
D4	1822																	D4	VIDEO EE/TAPE
D5	1824																	D5	RECORD
D6	1826																	D6	SYNC RECORD
D7	1828																	D7	SPOT ERASE ENABLE
HEX DATA 00-D3		HEX DATA 00-D3																HEX DATA 00-D3	
DECIMAL DATA 0-207		DECIMAL DATA 0-207																DECIMAL DATA 0-207	
A0	1920																	A0	1
A1	1922																	A1	2
A2	1924																	A2	3
A3	1926																	A3	4
A4	1928																	A4	VIDEO ENABLE
A5	1930																	A5	MODE 1
A6	1932																	A6	MODE 2
A7	1934																	A7	AUDIO TAPE/EE
A8	1936																	A8	VIDEO TAPE/EE
A9	1938																	A9	REHEARSE
A10	1940																	A10	INSERT
D0	1942																	D0	AUDIO 1 EE/TAPE
D1	1944																	D1	2
D2	1946																	D2	3
D3	1948																	D3	4
D4	1950																	D4	VIDEO EE/TAPE
D5	1952																	D5	RECORD
D6	1954																	D6	SYNC RECORD
D7	1956																	D7	SPOT ERASE ENABLE
HEX DATA 00-D3		HEX DATA 00-D3																HEX DATA 00-D3	
DECIMAL DATA 0-207		DECIMAL DATA 0-207																DECIMAL DATA 0-207	

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-11	-12	-13							
1													
2	1400185	SCHEMATIC			R								
3	1400003-01	SHIELD, PWB			1								
4	1400004-01	EJECTOR, PWB			1								
5	1400005-BA	LABEL			1								
6	051-770	INDUCTOR, FILTER FL1,2,3			3	3							
7													
8	034-199	CAPACITOR, MICA, 300pF 500V, 5% C55			1	1							
9	034-950	MICA, 1000pF, 5% C24,29,38,41			4	4							
10	037-591	TANT, 1.0uF, 35V, 20% C27,44			2	2							
11	037-790	TANT, 2.2uF, 20V, 20% C45,56			2	2							
12													
13	037-887	TANT, .47uF, 35V 20% C9			1	1							
14	037-892	TANT, .47uF, 20V, 20% C17,20,52			3	3							
15	037-812	TANT, 10uF, 25V, 20% C10,1,57			3	3							
16	064-062	MONO, 0.1 0uF, 50V, 20% C2,36,43,26			4	4							
17	064-300	MONO, .022uF, 100V, 20% C8			1	1							
18	064-314	MONO, 1.0uF, 50V, 20% C37			1	1							
19	064-316	MONO 2.2uF, 50V, 20% C47			1	1							
20	069-058	POLYCARB., .015uF, 100V, 5% C7			1	1							
21	064-116	CAPACITOR, CER.,DISC, .01uF, 50V, +80% -20% C1,3,4,5,6,11,13-16,18,19,21,22,23,25,28,30-35,39,40,42,46,48-51,53,54											
22													
23	013-166	DIODE, ZENER, 3.3V, 1/4W, 5% VR1-4			4	4							
24													
25													
26	013-689	DIODE, SWITCHING FD600 CR10,22,23,25,26			5	5							
27	581-618	DIODE, LIGHT EMITTING DS1,2			2	2							
28	057-106	RESISTOR, M.F., 2.7K OHMS, 1/4W, 2% R136				1							
29	057-098	RESISTOR, M.F., 1.2K OHMS, 1/4W, 2% R137				1							
30	057-103	2K OHMS, R135				1							
31	057-110	3.9K OHMS, R136											
32	057-130	27K OHMS, R141				1							
33	057-141	75K OHMS, R82				1							
34	057-144	100K OHMS, R120,122,124,126,129,132,134				7							
35	057-148	150K OHMS, R128				1							
36	057-151	RESISTOR, M.F., 200K OHMS, 1/4W, 2% R119,121,123,125,127,130,131,133				8							

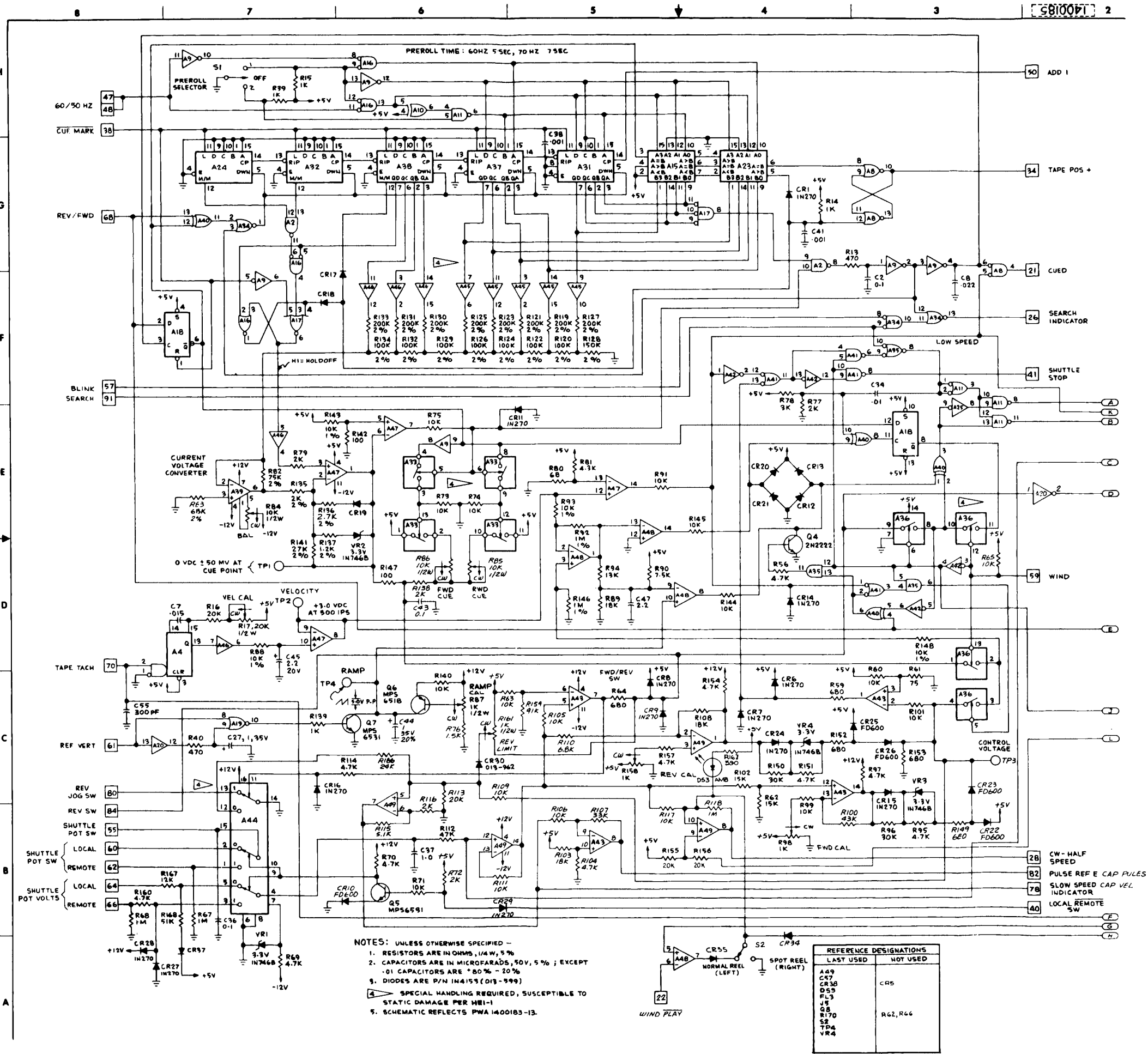
AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM- 1400133 SHEET 2	REF J Z								
ITEM NO.	PART NUMBER	DESCRIPTION			REF DESIGN	QTY REQD PER DASH NUMBER									
						-1	-2	-13							
38	057-124	RESISTOR, M.F., 15K, 1/4W, 2%	R83		1	1	-								
39	057-140	RESISTOR, M.F., 68K OHMS, 1/4W, 2%	R83		-	-	1								
40	058-004	RESISTOR, VARIABLE, 1K OHMS, 1/2W, 20%	R87,98,158,161		4	4	4								
41	058-611	VARIABLE, 10K OHMS, 1/2W, 20%	R17,84,85,86		4	4	-								
42	062-796	M.F., 1 MEG OHMS, 1/4W, 1%	R92,146		2	2	2								
43	062-983	M.F., 10K OHMS, 1/4W, 1%	R88,93,143,148		4	4	4								
44	066-816	C.F., 390 OHMS, 1/4W, 5%	R169		1	1	1								
45	066-865	C.F., 12K OHMS, 1/4W, 5%	R167		1	1	1								
46					-	-	-								
47	066-666	2.7K OHMS, 1/4W, 5%	R35		1	1	1								
48	066-667	3K OHMS, 1/4W, 5%	R44,78		2	2	2								
49					-	-	-								
50	066-845	24K OHMS, 1/4W, 5%	R166		1	1	1								
51	066-673	1 MEG OHMS, 1/4W, 5%	R67,68,118		3	3	3								
52	066-677	68 OHMS, 1/4W, 5%	R80		1	1	1								
53	066-711	7.5K OHMS, 1/4W, 5%	R90		1	1	1								
54	066-812	100 OHMS, 1/4W, 5%	R18,23,33,46,142,147		6	6	6								
55	066-814	270 OHMS, 1/4W, 5%	R58		1	1	1								
56	066-818	470 OHMS, 1/4W, 5%	R11-13,20,24-26,40,52-54,57		12	12	12								
57	066-824	1.5K OHMS, 1/4W, 5%	R38,47,76		3	3	3								
58	066-826	2K OHMS, 1/4W, 5%	R43,72,77,79,116,133		6	6	6								
59	066-828	4.3K OHMS, 1/4W, 5%	R81		1	1	1								
60	066-829	6.8K OHMS, 1/4W, 5%	R110		1	1	1								
61					-	-	-								
62	066-867	51K OHMS, 1/4W, 5%	R168		1	1	1								
63	066-832	18K OHMS, 1/4W, 5%	R89,103,108		3	3	3								
64	066-840	680 OHMS, 1/4W, 5%	R49,59,64,149,152,153		6	6	6								
65	066-842	5.1K OHMS, 1/4W, 5%	R115		1	1	1								
66	066-846	30K OHMS, 1/4W, 5%	R96,150		2	2	2								
67	066-847	33K OHMS, 1/4W, 5%	R107		2	2	2								
68	066-848	43K OHMS, 1/4W, 5%	R100		1	1	1								
69					-	-	-								
70	066-853	200K OHMS, 1/4W, 5%	R3-6,10,31		6	6	6								
71	066-856	15K OHMS, 1/4W, 5%	R2,62,102		3	3	3								
72	066-857	91K OHMS, 1/4W, 5%	R159		1	1	1								
73	066-864	13K OHMS, 1/4W, 5%	R94		1	1	1								
74	076-011	180K OHMS, 1/4W, 5%	R169		-	-	-								
75					-	-	-								
76					-	-	-								
77	066-974	150k OHMS, 1/4W, 5%	R1		1	1	1								
78	076-045	RESISTOR, C.F., 75 OHMS, 1/4W, 5%	R61		1	1	1								
79	058-611	RESISTOR, VAR., 10K OHMS, 1/2W, 20%	R84-86		-	-	3								
80	058-510	RESISTOR, VAR., 20K OHMS, 1/2W, 20%	R17				1								

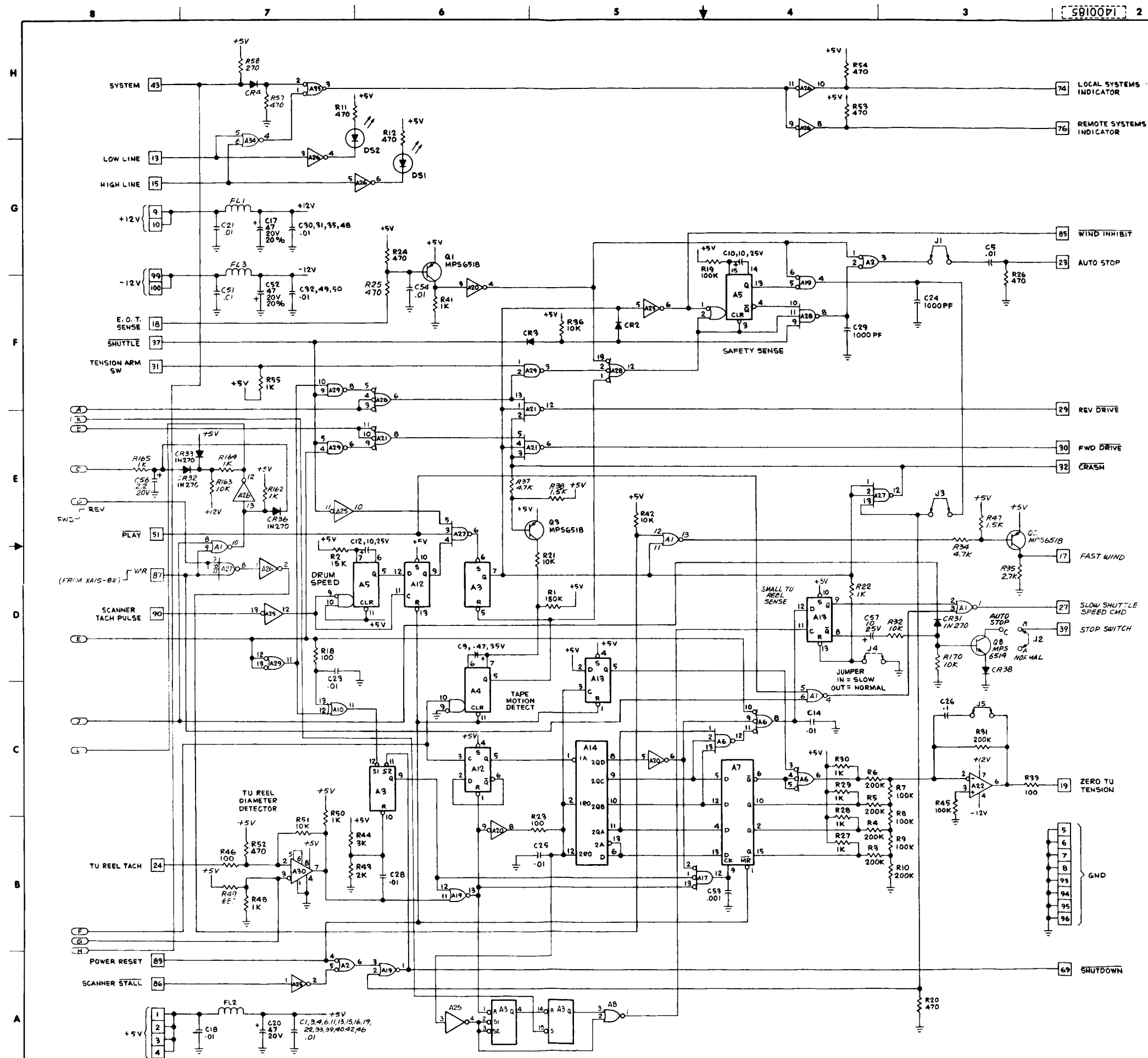
AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS		LM- 1400183 SHEET 3	REV Z											
ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER														
					-1	-12	-13												
81																			
82																			
83																			
84	589-813		INTEGRATED CIRCUIT, 74LS00	2			4		4										
85	590-332		74LS02	2			5		5		5								
86	587-533		74LS04				4		-		-								
87	590-536		7406	2			1		1		1								
88	589-815		74LS02				1		1		1								
89	589-816		74LS10				4		4		4								
90	589-930		74LS27				1		1		1								
91	589-820		74LS74				3		3		3								
92	589-821		74LS85				2		2		2								
93	590-620		74LS86				2		2		2								
94	590-329		74LS123				2		2		2								
95	590-495		74LS14				1		1		1								
96	589-831		74LS175				1		1		1								
97	589-951		74LS191				5		5		5								
98	590-131		74279				1		1		1								
99	589-854		74393				1		1		1								
100	590-578		CD4050				2		2		2								
101	590-450		CD4053				1		1		1								
102	590-618		CD4066				2		2		2								
103	590-611		741TC				2		2		2								
104	590-542		LM311NTC				1		1		1								
105	590-447		INTEGRATED CIRCUIT, LM324NTC				4		4		4								
106	589-814		INTEGRATED CIRCUIT, 74LS04	2			3		3		3								
107	602-044		PLUG, SHORTING				5		5		5								
108																			
109																			
110	143-981		CONNECTOR, JACK				1		1		11								
111	280-130		SPACER, TRANSISTOR				1		1		1								
112	119-724		SWITCH, TOGGLE, SPDT				1		1		1								
113	119-438		SWITCH, SPDT, ON-OFF-ON				1		1		1								
114	187-259		TEST LUG				4		4		4								
115	014-248		TRANSISTOR, CD37				1		1		1								
116	014-781		TRANSISTOR, MPS6518				4		4		4								
117	014-827		TRANSISTOR, MPS6531				2		2		2								
118	014-780		TRANSISTOR, MPS 6514				1		1		1								
119																			
120																			
121	283-105		SPACER, PLAIN, .140 I.D., .250 O.D. .125 LC.,				1		1		1								
122	471-063		SCREW, MACH. PAN HD., #4-40 X .438 LG				1		1		1								
123																			
124																			
125	502-005		WASHER, SPLIT LOCK, #4				1		1		1								

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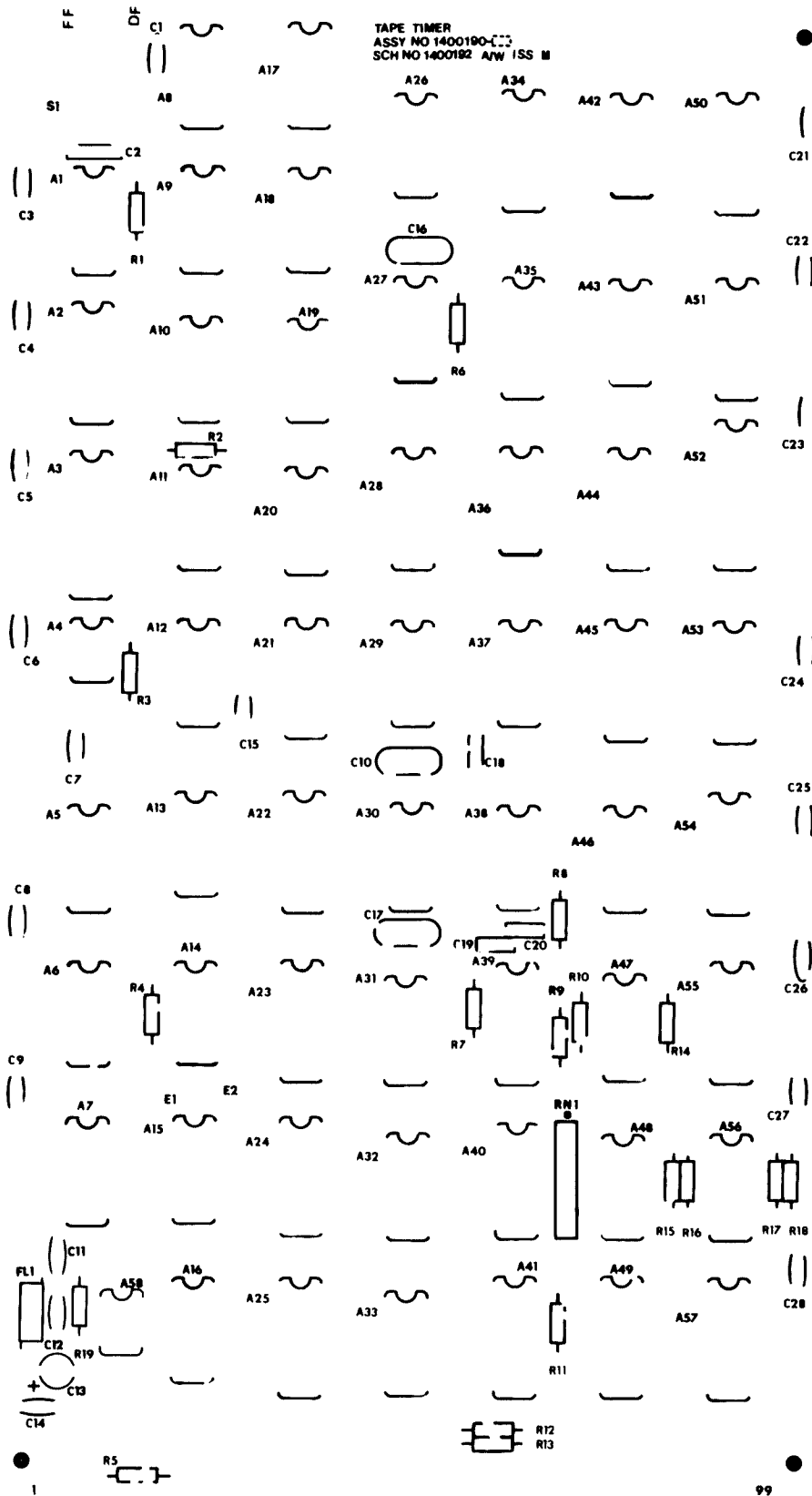
Assembly No. 1400183-13Z. Search PWA, No. 18





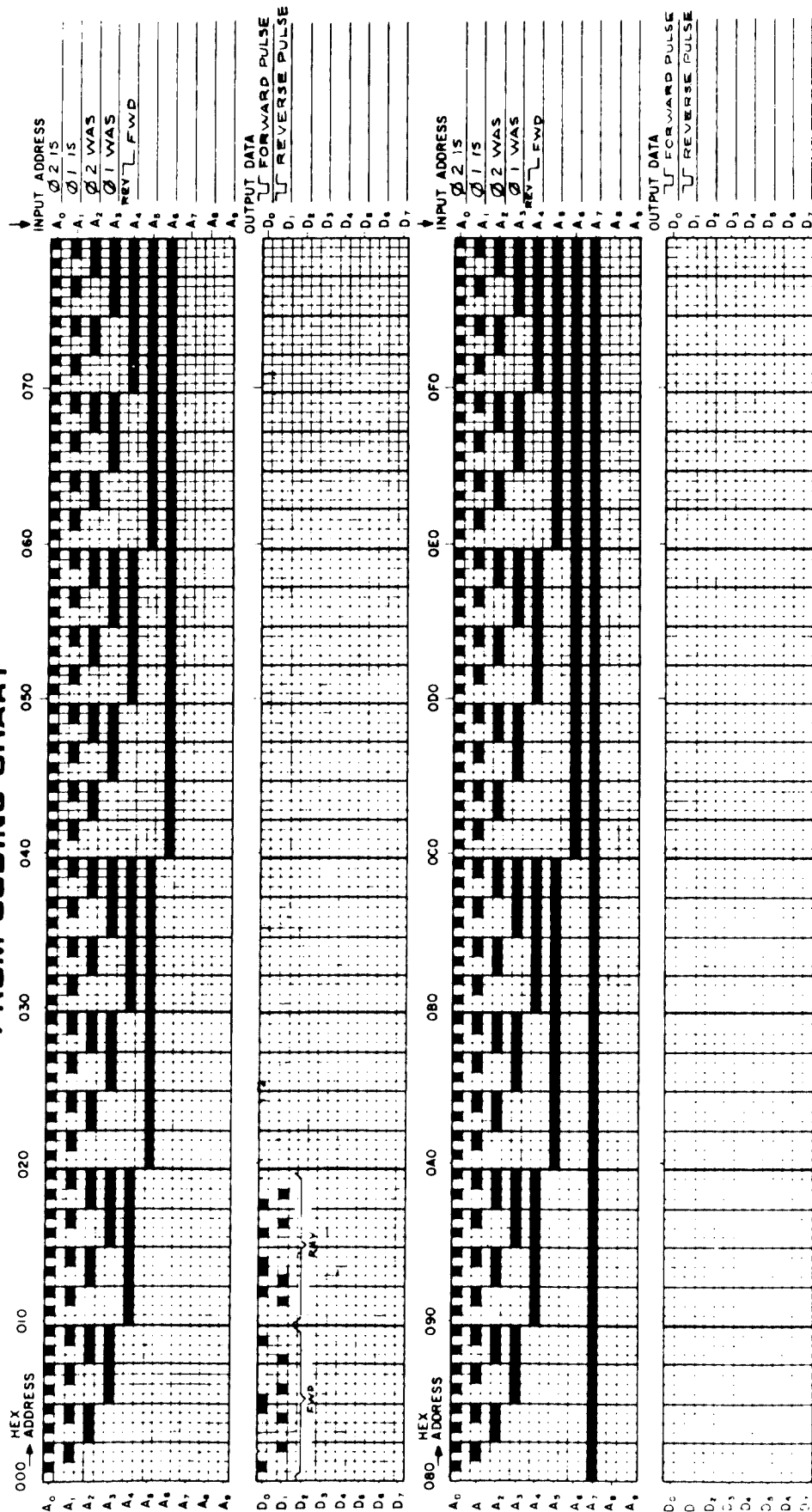
Schematic No. 1400185S.
Search PWA, No. 18
(Sheet 2 of 2)

ITEM NO.	PART NUMBER	DESCRIPTION	REF. DESIGN.	QTY REQD PER DASH NUMBER							
				-05	-06	-07	-08				
1				-05	-06	-07	-08				
2	1400192	SCHEMATIC TAPE TIMER	F	G	K	M					
3	1400003-01	SHIELD	1	1	1	1					
4	1400004-01	HANDLE	1	1	1	1					
5	1400005-AV	LABEL	1	1	1	1					
6											
7	1400337	PROM TACH PROCESSOR	A28	-01	-01	-01	-01				
8	1400338	PROM TACH DIVIDER	A3	-01	-01	-01	-01				
9	1400339	PROM LOOK AHEAD	A51	-01	-01	-01	-01				
10	1400340	PROM MODULUS GENERATOR	A52	-01	-01	-01	-01				
11											
12	1374188-01	INDUCTOR FILTER	FL1	1	1	1	1				
13	035-734	CAPACITOR, MYLAR, .01uF, 50V	C2	1	1	1	1				
14	034-286	CAPACITOR, MICA, 200pF, 500V	C10	1	1	1	1				
15	034-950	CAPACITOR, MICA, 1000pF, 100V	C16,17	2	2	2	2				
16	037-894	CAPACITOR, TANT, 100uF, 10V	C13	1	1	1	1				
17	064-116	CAPACITOR, CER., DISC, .01, 50V	C1,3-9,11,12,14,15,21-28	20	20	20	20				
18	064-303	CAPACITOR, CER., MONO, .47, 100V	C18,19,20	3	3	3	3				
19	035-730	CAPACITOR, MYLAR, .0047uF, 50V	C2	1	1	1	1				
20	066-810	RESISTOR, FIXED, C.F., 10 OHMS, 1/4W, 5%	R10,12-18	8	8	8	8				
21	066-818	RESISTOR, FIXED, C.F., 470 OHMS, 1/4W, 5%	R7,8,9	3	3	3	3				
22	066-822	RESISTOR, FIXED, C.F., 910 OHMS, 1/4W, 5%	R3,5	2	2	2	2				
23	066-830	RESISTOR, FIXED, C.F., 10K OHMS, 1/4W, 5%	R4	1	1	1	1				
24	066-842	RESISTOR, FIXED, C.F., 5.1K OHMS, 1/4W, 5%	R2,11,19	3	3	3	3				
25	066-856	RESISTOR, FIXED, C.F., 15K OHMS, 1/4W, 5%	R1,6	2	2	2	2				
26	039-223	RESISTOR NETWORK, 1K OHMS	RN1	1	1	1	1				
27											
28	589-813	INTEGRATED CIRCUIT, 74LS00	A16	1	1	1	1				
29	586-109	7402	A38,48	2	2	2	2				
30	590-332	74LS02	A6	1	1	1	1				
31	590-609	7404	A26	1	1	1	1				
32	589-814	74LS04	A7	1	1	1	1				
33	590-538	7408	A10	1	1	1	1				
34	589-815	74LS08	A12,43	2	2	2	2				
35	589-816	74LS10	A14	1	1	1	1				
36	590-544	7414	A32	1	1	1	1				
37	590-609	INTEGRATED CIRCUIT, 7404	A7,26	1	1	2	2				



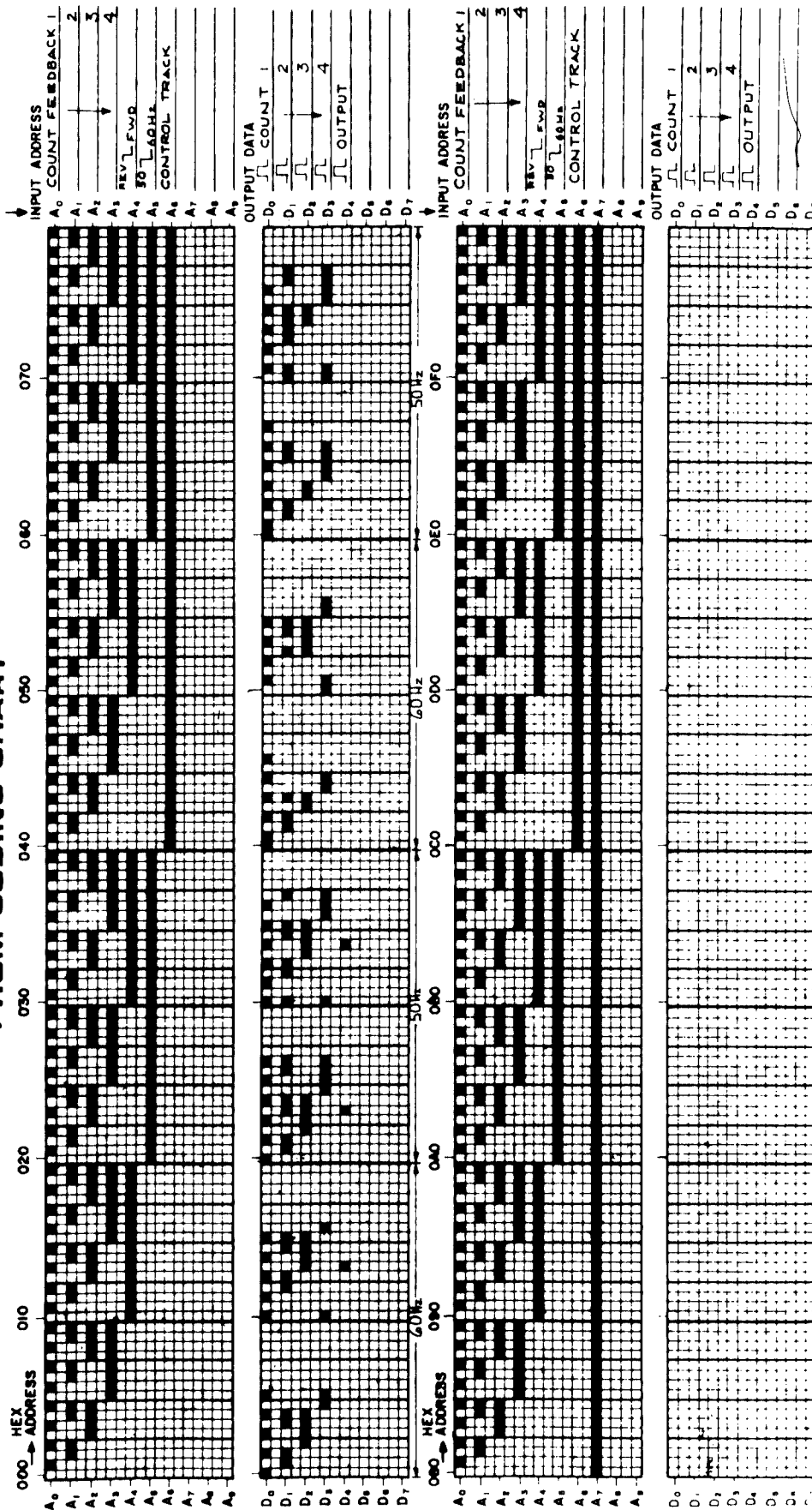
Assembly No. 1400190-08Z. Tape Timer PWA, No. 19

PROM CODING CHART



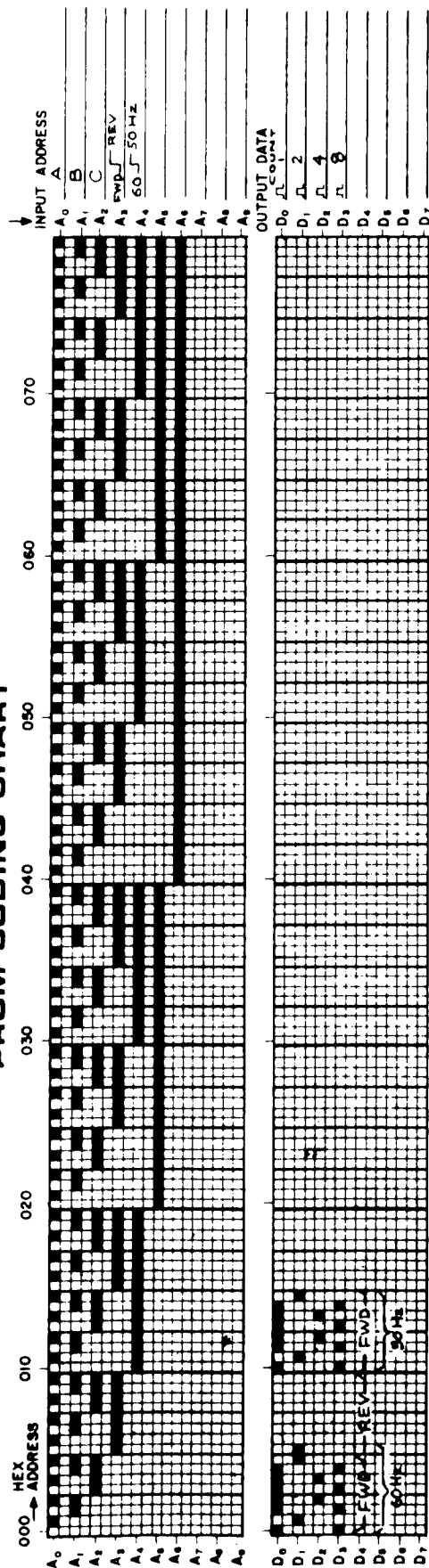
SCHEMATIC NO. 400192
 SCHEMATIC REF NO. A28
 NEXT ASSEMBLY NO. 140030 (TAPE TIMER)
 FROM P.O. 1400337-C1

PROM CODING CHART



SCHEMATIC NO. 1400192
 SCHEMATIC REF. NO. A3
 NEXT ASSEMBLY NO. 1400190
 PROM NO. 1400338-01

PROM CODING CHART



SCHEMATIC NO. 1400192
 SCHEMATIC REF. NO. A51
 NEXT ASSEMBLY NO. 1400190
 PROM NO. 1400339-01

PROM CODING CHART

HEX ADDRESS									
000	010	020	030	040	050	060	070	INPUT ADDRESS	
A ₀	A ₁	A ₂	A ₃	A ₄	A ₅	A ₆	A ₇	A ₈	A ₉
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SCHEMATIC NO. 1400192
 SCHEMATIC REF. NO. A 52
 NEXT ASSEMBLY NO. 1400190
 PROM NO. 1400340-01

PROM No. 1400340. Modulus Generator PROM, A52

[illegible]

NON-SYNC KIT, 525 LINE (OPTION)
NEXT HIGHER ASSEMBLY 1400000

[illegible]

1400820-03

SYNC KIT, 525 LINE (ACCESSORY)








REV. L

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REV. F

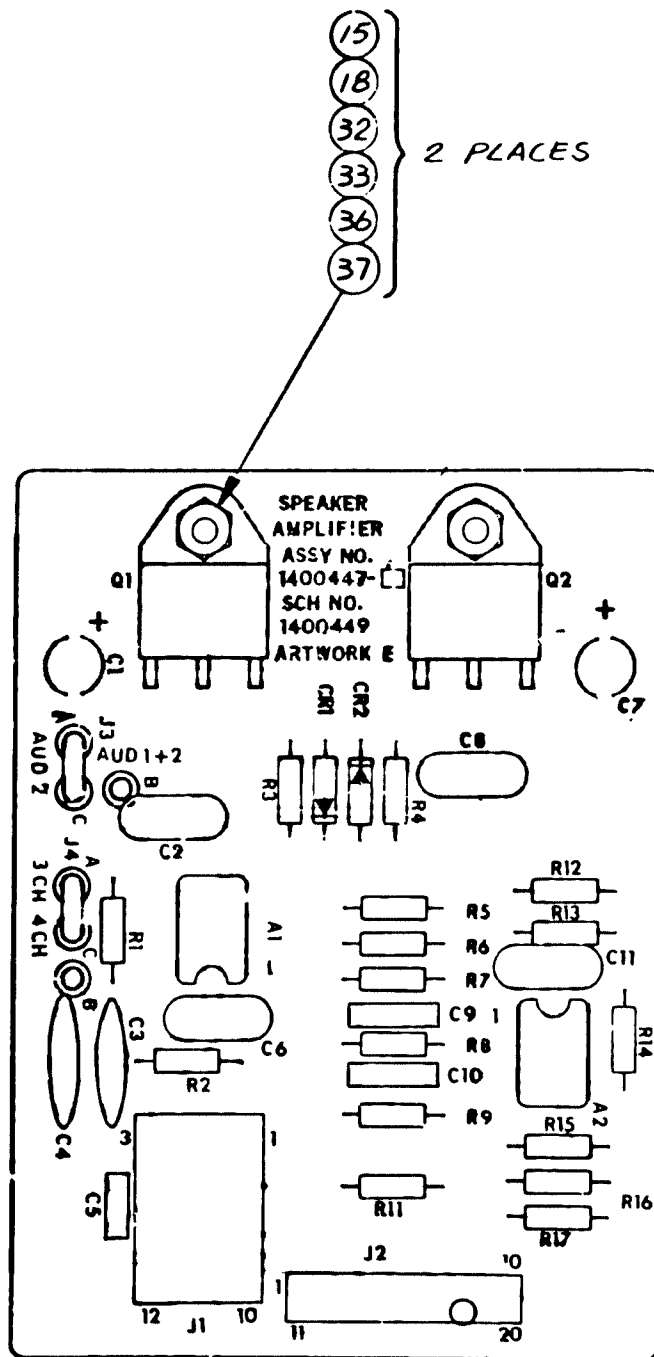
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ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02	-03	-04						
1	1379127-01	DOOR, LOWER LEFT		1			1						
2	1379128-01	DOOR, LOWER RIGHT		1			1						
3	1379130-02	PANEL, REAR, LOWER LEFT		1			1						
4	1379131-01	PANEL, REAR, CONSOLE		1			1						
5	1379136-01	BRACKET, DOOR PIVOT, LOWER		2			-						
6	1379137-AA	BRACKET, DUAL DOOR PIVOT		1			-						
7	1379137-AB	BRACKET, DUAL DOOR PIVOT		1			-						
8	1379138-AA	PANEL, COVER		1			-						
9	1379138-AB	PANEL, COVER		1			-						
10	1379139-AC	PANEL, SIDE, CONSOLE		1			1						
11	1379139-AD	PANEL, SIDE, CONSOLE		1			1						
12	1379140-AA	OVERLAY, EXTENSION, (TAKE UP)		1			1						
13	1379140-AC	OVERLAY, EXTENSION (SUPPLY)		1			1						
14	310-938	FASTENER "U" CLAMP WITH STAGGERED BARBS		8	8	8	8						
15	1379204-AB	PANEL, FILLER (BOTTOM)		1			1						
16	1379204-AC	PANEL, FILLER (TOP)		1			1						
17													
18	1379337-01	WASHER, NYLON, ADHESIVE BACKED		6	6	6	4						
19	1379135-01	PANEL, TOP CONSOLE		1			1						
20	1400907	WIRING DIAGRAM, HARNESS, CONTROL CONSOLE		E	6	8	J						
21	1400901-01	PANEL ASSEMBLY, AUDIO MONITOR		1			-						
22													
23	1400909-01	DOOR ASSEMBLY, CENTER		1			-						
24	1400911-02	FRAME ASSEMBLY		1			-						
25	1400951-01	PANEL, COVER		-	2	2	2						
26	1400952-01	COVER, FRONT, CONSOLE		-	2	2	2						
27	7336180-01	PLATE, NUT		2	2	-	-						
28	1400953-01	RETAINER, FRONT COVER		-	2	2	2						
29	1400901-02	PANEL ASSY., AUDIO MONITOR		-			-						
30	250-180	BUMPER, ADHESIVE BACKED, .140 HG, .500 DIA, BLK		2	2	2	2						
31	1400617-AA	BRACKET, DOOR PIVOT		-	2	2	2						
32	1400617-AB	BRACKET, DOOR PIVOT		-	2	2	2						
33	302-198	STRAP, CABLE, 1.750 MAX BDL DIA		2	2	2	2						
34	302-451	STRAP, ACCESSORIES, MTG PLATE, CABLE CLAMP, ADHESIVE BACK		2	2	2	2						
35	310-464	CATCH ASSY (CATCH & STRIKE)		2	2	2	2						
36	310-852	LATCH PART, RETAINING RING, (1/4 TURN)		10	10	10	10						
37	310-857	LATCH PART, STUD, OVAL HEAD, (1/4 TURN)		10	10	10	10						

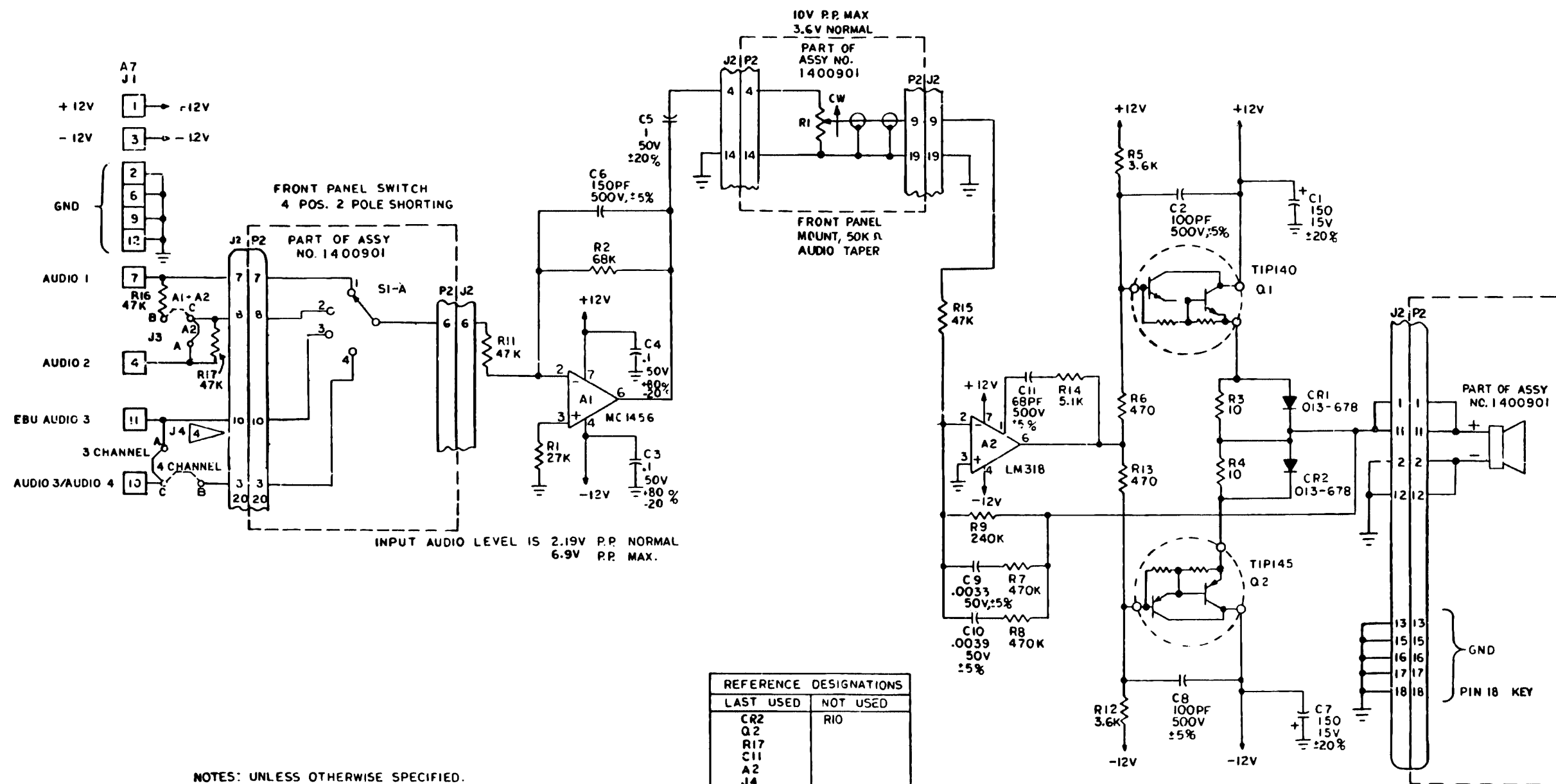
AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1400900		SHEET 2		P					
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01	-02	-03	-04								
38	310-871	LATCH PART, RECEPTACLE (1/4 TURN)		10	0	10	10								
39	1460452-01	SPACER, CONSOLE DOOR LATCH					2								
40															
41	471-381	SCREW, MACH, FLAT 82° HD, XREC, 4-40 X .375 LG, SST		4	4	4	4								
42	473-045	SCREW, MACH, FLAT 82° HD, XREC, 6-32 X .375 LG, BLK OXD		8	8	8	8								
43	473-703	SCREW, CAP, BUT HD, HEX SOC, 8-32 X .375 LG, CS, BLK OXD		22	22	24	24								
44	473-974	SCREW, MACH, PAN HD, XREC, 10-32 X .312 LG, W/WASHER, BLK		8	8	8	8								
45	475-061	SCREW, MACH, PAN HD, XREC, 8-32 X .500 LG, I.T. WASHER		8	8	8	8								
46	496-005	NUT, HEX, CAPTIVE EXT TOOTH LOCK WASHER, 6-32, CS		8	8	8	8								
47	498-358	NUT, HEX, CAPTIVE EXT TOOTH LOCK WASHER, 4-40, SST		4	4	4	4								
48	496-004	NUT, HEX, CAPTIVE WASHER, 4-40		-	-	4	4								
49	501-061	WASHER, PLAIN, .125 ID, .312 OD, #4, .017 THK		-	-	4	4								
50	501-009	WASHER, PLAIN, .156 ID, .375 OD, .049 THK, CS		8	8	8	8								
51	501-185	WASHER, PLAIN, .115 ID, .209 OD, .016 THK, SST		4	4	4	4								
52	501-205	WASHER, PLAIN, .188 ID, .438 OD, .049 THK, CS		8	8	8	8								
53	503-310	WASHER, PLAIN, NYLON, .170 ID, .375 OD, .030 THK, BLK		22	22	24	24								
54															
55	1400911-03	FRAME, ASSEMBLY				1	1								
56	1400901-03	PANEL ASSEMBLY AUDIO MONITOR				1	1								
57															
58															
59															
60	6000037-01	SYSTEM IDENTIFICATION LABEL		1											
61	6000056-01	LABEL, FCC NONCOMPLIANCE		1					1						
62	1400673-01	LABEL, CAUTION		3					1						
63	1400672-01	LABEL, COMMERCIAL USE ONLY		4					1						
NOTES:															
			PLACE ON EXTERIOR SURFACE OF ITEM 3, 10 INCHES UP FROM NOTCH.												
			PLACE BELOW ITEM 61												
			PLACE BELOW ITEM 62.												

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02	-03							
1	1365042-02	SWITCH, 2 POLE, 4 POSITION S1		1	1	1							
2	1379122-02	PLATE, SPEAKER CLOTH		1	1	1							
3	1379237-01	PLATE, NUT		1	-	-							
4	1379240-01	GRILL CLOTH		1	1	1							
5													
6	1400447-03	PWA, SPEAKER AMPLIFIER A1			-	1							
7	1400447-01	PRINTED WIRING ASSEMBLY, SPEAKER AMPLIFIER A1		1	1	-							
8	1400449	SCHEMATIC, SPEAKER AMPLIFIER		B	B	E							
9	1400902-01	PANEL, AUDIO CONTROL		1	-	-							
10	1400902-02	PANEL, AUDIO CONTROL			1	-							
11	1400902-03	PANEL, AUDIO CONTROL			-	1							
12	6000002-20	SKIRTED KNOB, 1/2" SERIES FOR 1/8" SHAFT REF:R1,S1		2	2	2							
13	6000035-01	LABEL, IDENTIFICATION		1	1	1							
14													
15													
16	075-125	RESISTOR, VAR, CARBON, SINGLE, .5W, 50K OHM, 10% R1		1	1	1							
17	104-027	SPEAKER, 4,500 NOM CONE DIA, X 2.250 DEEP		1	1	1							
18	167-443	CONNECTOR PART, BODY, PLUG, 20 POSITION, RECT P2		1	1	1							
19	167-444	CONNECTOR PART, CONTACT, SPRING, 24-20 AWG REF: P2		15	15	15							
20	167-445	CONNECTOR PART, KEY, POLARIZING, NATURAL NYLON REF:P2, P18		1	1	1							
21	280-664	SPACER, UNTHREADED, PLAIN, #4, .119 ID, .250 OD, .250 LG		4	4	4							
22	302-335	STRAP, CABLE, .750 MAX BUNDLE DIA, .095 ID, 4.00 LG		A/R	A/R	A/R							
23	310-694	CATCH PART, BALL TENSION, 1.375 OC, CHROME PLATED		1	-	-							
24	471-380	SCREW, MACH, FLAT 82 HD, XREC DR, 4-40 X .312 LG, SST		2	-	-							
25	496-004	NUT, HEX, CAPTIVE WASHER, 4-40		10	10	10							
26	498-291	NUT, HEX, FINISHED, 1/4-32		1	1	1							
27	501-008	WASHER, PLAIN, .125 ID, (#4) .312 OD, .032 THK		4	4	4							
28	501-025	WASHER, PLAIN, .265 ID, (1/4) .500 OD, .021 THK		2	2	2							
29	613-018	CABLE, SHIELDED & JACKETED, SINGLE GAUGE, 1 CONDUCTOR, 24 AWG		A/R	A/R	A/R							
30													
31													
32		WIRE, STRANDED, 24 AWG		A/R	A/R	A/R							
33		SLEEVING, PVC, SHRINKABLE, BLACK		A/R	A/R	A/R							

ITEM NO.	PART NUMBER	DESCRIPTION	REF. DESIG.	QTY REQD PER DASH NUMBER									
				-01	-02	-03							
1		PWB, SPEAKER AMPLIFIER		-01									
2	1400449	SCHEMATIC, SPEAKER AMPLIFIER	B		C	E							
3													
4	013-678	DIODE, SILICON CD451 (1N4385) C1,2	2		2	2							
5													
6	034-184	CAPACITOR, MICA, 68pF, 500V, 5% C11	1		1	1							
7	034-213	CAPACITOR, MICA, 150pF, 500V, 5% C6	1		1	1							
8	034-177	CAPACITOR, MICA, 100pF, 500V, 5% C2,8	2		2	2							
9	143-981	JACK P.C. TIP J3,4 (ABC)			6	6							
10	602-044	PLUG SHORTING REF: J3,4			2	2							
11	037-960	CAPACITOR, TANT, 150uF, 15V, 20% C1,7	2		2	2							
12	066-717	RESISTOR, C.F., 47K, 1/4W, 5% R11,15-17				4							
13	055-167	CAPACITOR, MYLAR, .0033uF, 50V, 5% C9	1		1	1							
14	055-605	CAPACITOR, MYLAR, .0039uF, 50V, 5% C10	1		1	1							
15	582-167	WASHER, MICA REF: Q1,2	2		2	2							
16	030-095	CAPACITOR, CER, DISC, .1uF, 50V, +80-20% C3,4	2		2	2							
17	064-314	CAPACITOR, MONO, 1uF, 50V, 20% C5	1		1	1							
18	501-976	WASHER SHOULDER REF: Q1,2	2		2	2							
19	066-652	RESISTOR, CARBON FILM, 470K OHM, 1/4W, 5% R7,8	2		2	2							
20	066-717	RESISTOR, CARBON FILM, 47K OHM, 1/4W, 5% R10,11,15-17	5		5	-							
21	066-810	RESISTOR, CARBON FILM, 10 OHM, 1/4W, 5% R3,4	2		2	2							
22	066-818	RESISTOR, CARBON FILM, 470 OHM, 1/4W, 5% R6,13	2		2	2							
23	066-842	RESISTOR, CARBON FILM, 5.1K OHM, 1/4W, 5% R14	1		1	1							
24	066-850	RESISTOR, CARBON FILM, 240K OHM, 1/4W, 5% R9	1		1	1							
25	066-863	RESISTOR, CARBON FILM, 3.6K OHM, 1/4W, 5% R5,12	2		2	2							
26	066-866	RESISTOR, CARBON FILM, 27K OHM, 1/4W, 5% R1	1		1	1							
27	076-009	RESISTOR, CARBON FILM, 68K OHM, 1/4W, 5% R2	1		1	1							
28	139-820	CONNECTOR, SIGNAL, CKT, RECPT., 12 PINS J1	1		1	1							
29	135-023	HEADER, 20 POS. J2	1		1	1							
30	580-857	TRANSISTOR, TIP 140 Q1	1		1	1							
31	580-858	TRANSISTOR, TIP 145 Q2	1		1	1							
32	471-062	SCREW, MACH, PAN HD, 4-40 UNC-2A, XREC, .375 LG	2		2	2							
33	496-004	NUT, HEX, KEP, 4-40	2		2	2							
34	590-617	INTEGRATED CIRCUIT, (LM318N), PRESTRESSED A2	1		1	1							
35	590-551	INTEGRATED CIRCUIT, (MC1456CP1) PRESTRESSED A1	1		1	1							
36	501-008	WASHER, PLAIN #4	2		2	2							
37	087-388	HEAT SINK COMPOUND	AR		AR	A/D							



Assembly No. 1400447-03H. Speaker Amplifier PWA



NOTES: UNLESS OTHERWISE SPECIFIED.

1. RESISTANCE VALUES ARE IN OHMS. 1/4W, 5%.
2. CAPACITANCE VALUES ARE IN MICROFARADS.
3. THIS SCHEMATIC REFLECTS PWA 1400447-03 AND PANEL ASSEMBLY 1400901-03

4. SEE JUMPER TABLE

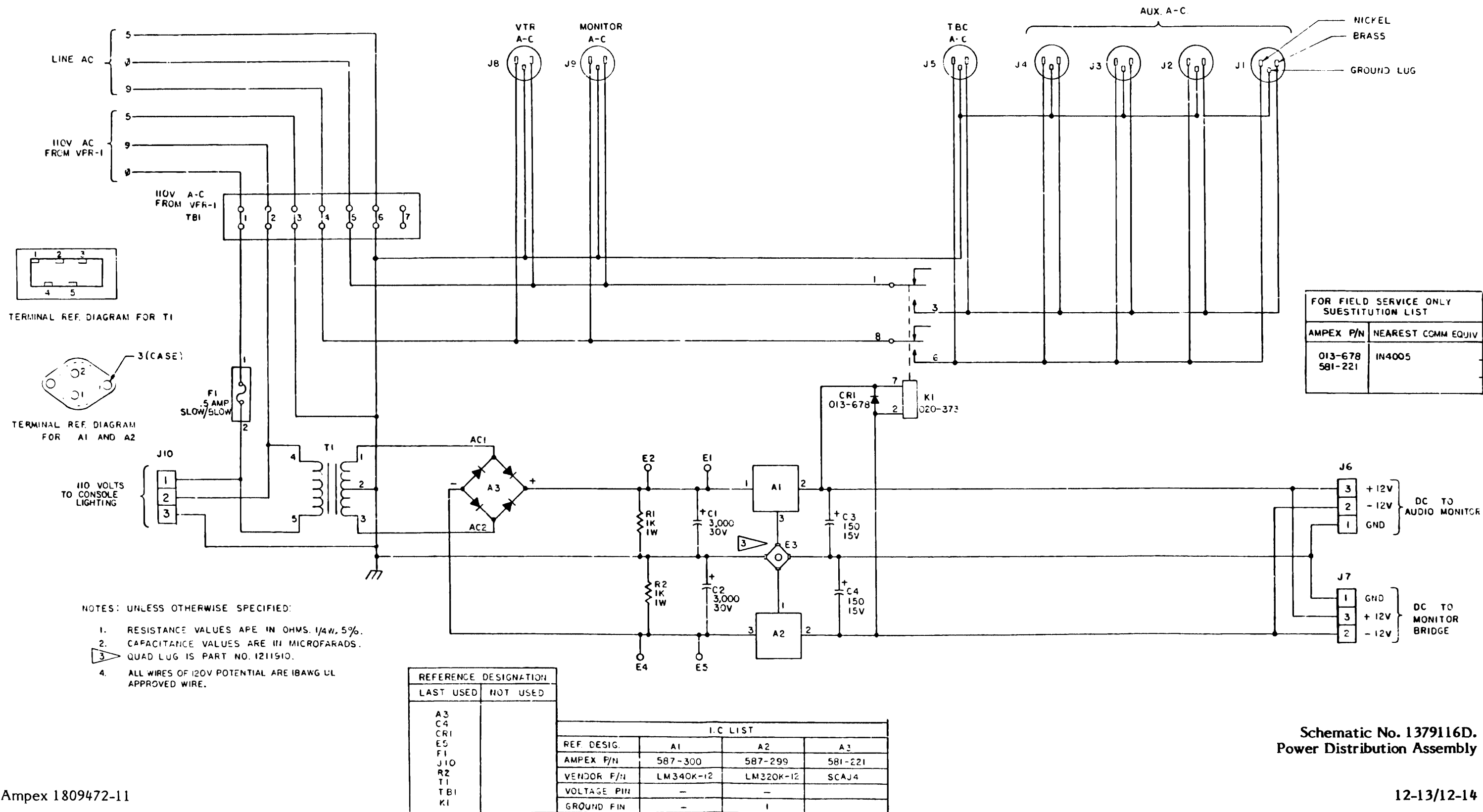
JUMPER TABLE				
3CHANNEL	4CHANNEL			
J4-A TO C	J4-B TO C	I.C. LIST		
		REF DES.	A1	A2
		AMPEX P/N	590-551	590-617
		VENDOR P/N	MC1456CPI	LM318N
		VOLTAGE PINS	+(7) -(4)	+(7) -(4)
		GROUND PINS	-	-

Schematic No. 1400449E.
Speaker Amplifier PWA

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				0	02	03	104						
1	1379112-02	FRAME, CONSOLE		1	1		-						
2	1379113-02	FLOOR, CONSOLE		1	1		1						
3	1379114-05	POWER DISTRIBUTION ASSEMBLY		1	1		1						
4	1379117-01	RAIL, SIDE SUPPORT		2	-		-						
5	1379118-01	RAIL, CENTER SUPPORT		2	-		-						
6	1379142-01	SUPPORT, DOOR RETAINER (CENTER DOOR ASSY)		2	2		-						
7	1379166-01	PANEL, SIDE, POWER DISTRIBUTION		1	1		1						
8	1379167-AA	SUPPORT, OVERLAY (TAKEUP)		1	1		1						
9	1379167-AC	SUPPORT, OVERLAY (SUPPLY)		1	1		1						
10													
11	1379117-02	RAIL, SIDE SUPPORT		-	4		4						
12	1400906-05	HARNESS ASSEMBLY, CONSOLE		1	1		-						
13	1400922-01	FRAME, CONSOLE					1						
14	1400906-08	HARNESS ASSEMBLY, CONSOLE					1						
15													
16	018-019	ADHESIVE, BONDING, 1 PART (EASTMAN 910)		A/R	A/R	A/R	A/R						
17	082-053	CASTER, SWIVEL, PLATE MTG, 2.0 DIA WHEEL		4	4		4						
18	084-056	CORD SET, POWER, 15 FEET LG, 3 COND, 14 GA		1	1		1						
19													
20													
21	171-007	TERMINAL LUG, CRIMP, RING TONGUE, #10 STUD, 16-14 AWG		1	1		1						
22	172-213	TERMINAL LUG, CRIMP, SPADE TONGUE, #10 STUD, 16-14 AWG		3	3		-						
23	180-030	TERMINAL STRIP, 7 DOUBLE TERMINALS, WITH MARKER STRIP		1	1		1						
24	171-061	TERMINAL LUG, CRIMP, SPADE TONGUE, FLG, #10 STUD, 16-14 AWG					3						
25	260-062	GROMMET, NYLON, CATERPILLAR, .131 ID, .226 OD					A/R						
26	260-058	GROMMET, NYLON, CATERPILLAR		A/R	A/R	A/R	A/R						
27	260-236	GROMMET, RUBBER, .156 ID, .406 OD, .266 DIA GROOVE		4	4		4						
28	265-091	BUSHING, STRAIN RELIEF, STRAIGHT THRU, .370/.430 WIRE DIA		1	1		1						
29	280-798	SPACER, THREADED, 8-32 THRU, .250 AF HEX, 1.25 LG, AL		2	2		2						
30	283-069	SPACER, UNTHREADED, .62 OD, .323 ID, .56 LG		4	4		4						
31	283-205	SPACER, THREADED, 8-32 THRU, .250 AF HEX, .531 LG, AL		2	2		2						
32													
33													
34	302-198	STRAP, CABLE, 1.750 MAX BDL DIA		13	13		13						
35	302-355	STRAP, ACCESSORIES, MTG PLATE, CABLE CLAMP, #8		5	5		5						
36	302-407	STRAP, ACCESSORIES, MTG PLATE, CABLE CLAMP, #10		4	4		4						
37	302-451	STRAP, ACCESSORIES, MTG PLATE, CABLE CLAMP, ADHESIVE BACK		2	2		2						

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02	-03	-04	-05					
1	1379115-01	PANEL, POWER DIST		1	1	1	1	1					
2	1379116	SCHEMATIC		1	1	1	1	1					
3	1211910-10	QUAD LUG E3		1	1	1	1	1					
4	1379115-02	PANEL, POWER DIST		1	1	1	1	1					
5	615-011	WIRE, SOLID, 16 AWG		AR	AR	AR	AR	AR					
6		WIRE, STRANDED, 20 AWG		AR	AR	AR	AR	AR					
7		WIRE, STRANDED, 16 GA.		AR	AR	AR	AR	AR					
8	013-678	DIODE CD451 CR1		1	1	1	1	1					
9	CD568	WIRE, STRANDED, 18 GA.				AR	AR	AR					
10	020-941	RELAY K1		1	1	1	1	1					
11	150-010	SOCKET, OCTAL REF: K1		1	1	1	1	1					
12	1379115-03	PANEL, POWER DIST				1	1	1					
13	037-960	CAPACITOR, TANT., 150uF, 15V C3,4		2	2	2	2	2					
14	615-006	WIRE, SOLID, 14AWG, TND. COPPER						AR					
15													
16	041-102	RESISTOR, COMP, 1K, 1W, 5% R1,2		2	2	2	2	2					
17													
18	145-709	CONNECTOR, INSULATION DISPLACEMENT. J1-5, 8, 9.						7					
19	063-280	CAPACITOR, TANT, 3,000uF, 30V C1,2		2	2	2	2	2					
20	167-023	CONNECTOR PART, BODY, RECPT. 6 POS J10						1					
21	166-199	CONNECTOR PART, SOC, 20-22 AWG			3	3							
22	070-026	FUSE, .5A, SLOW BLOW F1		1	1	1		1					
23	085-001	FUSE, HOLDER REF: F1		1	1			1					
24	145-683	CONNECTOR;POWER CIRCUIT; 125V, 15A J1-5,8,9		7	7	7		7					
25	166-225	CONNECTOR PART, CONTACT, SOC, 16-18 GA. REF: J6,7		4	4	4							
26	166-200	CONNECTOR PART, CONTACT, 20-22 GA., PIN REF: 6-1,7-1		2	2	2		2					
27	167-451	CONNECTOR PART, BODY, RECPT, 3 POS. J6,7		2	2	2		2					
28	180-746	FANNING STRIP, 7 TERM REF: TB1		1	1	1		1					
29	166-225	CONNECTOR PART, SOC., 16-18 AWG. REF: J6,7,10						7					
30	173-626	TERMINAL STUD, TURRET E1,2,4,5		4	4	4		4					
31	280-031	INSULATOR, TO-3 REF: A1,A2		2	2	2		2					
32	087-388	HEATSINK COMPOUND REF: A1,A2, A3		AR	AR	AR		AR					
33	560-458	TRANSFORMER, POWER T1		1	1	1		1					
34	580-510	TRANSISTOR MTG. HDW., SOCKET REF: A1,2		2	2	2		2					
35	581-221	DIODE, BRIDGE, PER CD689 A3		1	1	1		1					
36	587-299	I.C. REGULATOR, PER CD711 A2		1	1	1		1					
37	587-300	I.C. REGULATOR, PER CD707 A1		1	1	1		1					

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA	CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1379114	SHEET 2	R						
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02	-03	-04	-05					
38	302-105	CLAMP, CABLE, CD652 REF: C1,2		2	2	2	2	2					
39	471-062	SCREW, MACH, PAN HD, 4-40 X .375		2	2	2	2	2					
40	471-067	SCREW, MACH, PAN HD, 6-32 X .250		4	4	4	4	4					
41	471-071	SCREW, MACH, PAN HD, 6-32 X .500		9	9	9	9	9					
42	470-01B	SCREW, CAP, HEX SOC HD, 6-32 X .312		1		1	1	1					
43													
44	496-004	NUT, HEX, CAPTIVE WASHER, 4-40		2	2	2	2	2					
45	496-005	NUT, HEX, CAPTIVE WASHER, 6-32		6	6	6	6	6					
46	501-008	WASHER, FLAT #4		4	4	4	4	4					
47	501-009	WASHER, FLAT #6		12	12	12	2	12					
48	502-091	WASHER LOCK INT 1/2				1	1	1					
49	506-013	WASHER, "D" #6		2	2	2	2	2					
50													
51	502-025	WASHER, LOCK, INT., #6		4	4	4	4	4					
52	582-319	TRANSISTOR COVER, W/LOCK WASHERS & CAPS REF: A1,A2					2	2					
53	580-644	COVER, TRANSISTOR REF: A1,A2		2	2	2	-	-					
54													
55	302-335	CABLE STRAP		A/R	A/R	AR	AR	AR					
56	600-237	SLEEVING, TFE, 16 AWG		A/R	A/R	AR	AR	AR					
57		SLEEVING, POF, SHRINK, CLEAR		A/R	A/R	AR	AR	AR					
58	600-161	SLEEVING, TFE, 22 AWG		A/R	A/R	AR	AR	AR					
59	600-196	SLEEVING, TEFLON, 18 AWG .042 I.D.		A/R	A/R	AR	AR	AR					



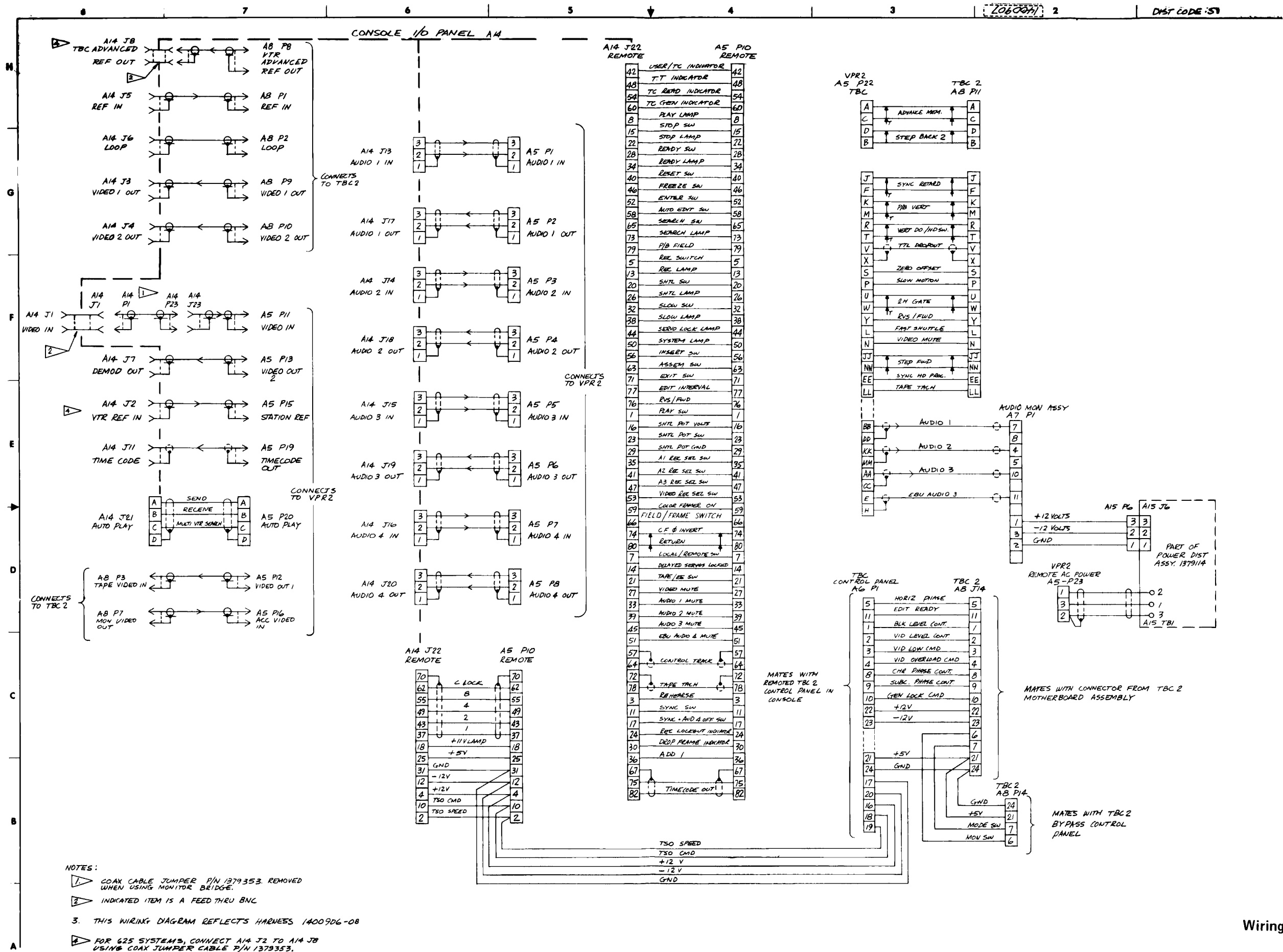
1400906-08

CONSOLE HARNESS ASSEMBLY
NEXT HIGHER ASSEMBLY 1400911

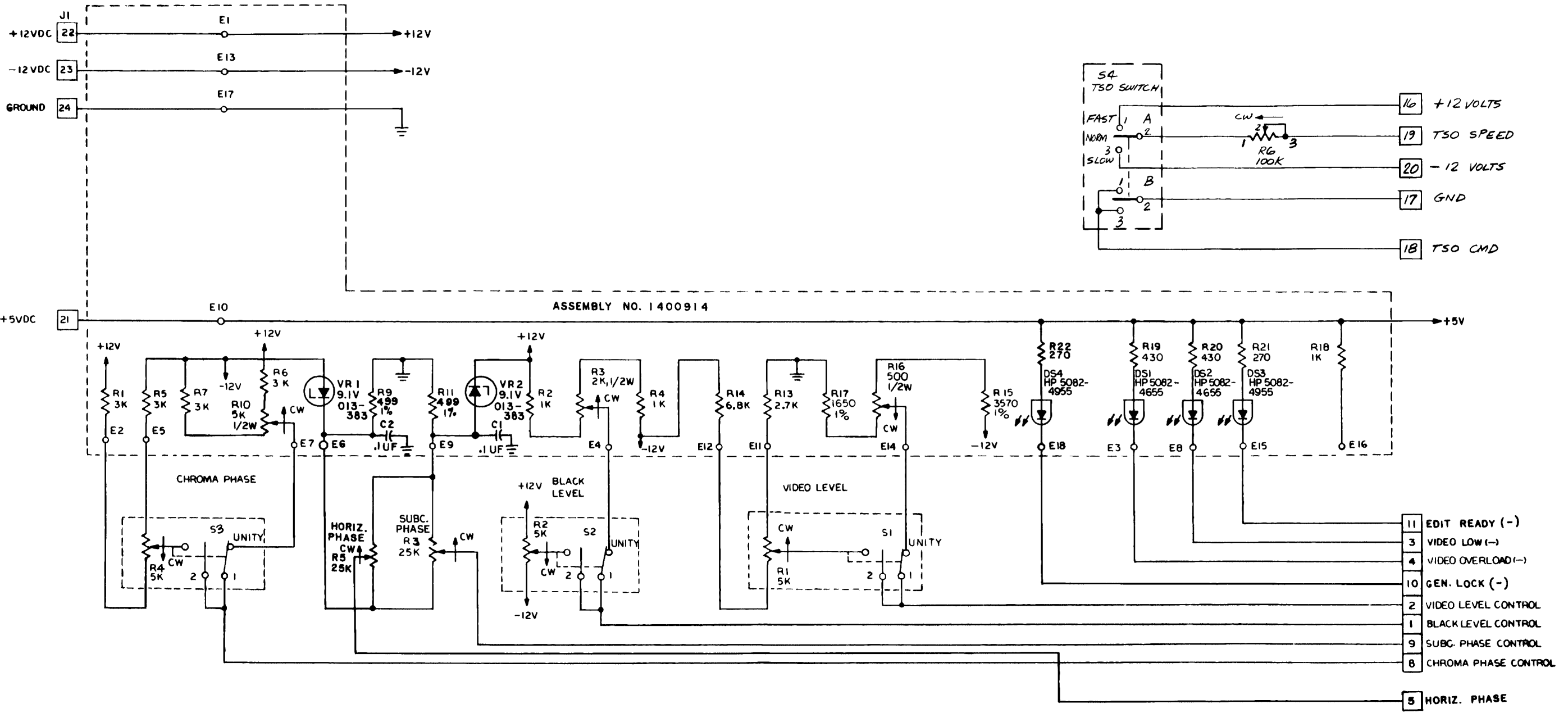
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ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER							
				01	02	03	04	05	06	07	08
1	1379203-01	GRILL, CONNECTOR PANEL		1	1	1	1	1	1	1	1
2	1379353-AA	COAX CABLE, JUMPER		1	2	2	2	2	2	1	-
3	1379353-AA	COAX CABLE, JUMPER								3	-
4	1400905-02	PANEL, CONNECTOR, REAR								1	-
5	1400905-01	PANEL, CONNECTOR, REAR		1	1	1	1	1	1	-	-
6	1400907	WIRING DIAGRAM		(-)	(-)	A	B	E	F	G	J
7	1400913-01	BRACKET, REAR CONNECTOR PANEL		1	1	1	1	1	1	-	-
8	140-092	CONNECTOR, PLUG, 1 COAX PIN, BNC	A5;P11,12,13,15,16,19 A8;P1,2,3,7,9,10							13	-
9	140-092	CONNECTOR, PLUG, 1 COAX PIN, BNC	A5;P11,12,13,15,16,19 A8;P1,2,3,7,9,10 A9;P1,2,3,10,13					12	12	-	-
10	140-092	CONNECTOR, PLUG, 1 COAX PIN, BNC	A5;P11,12,13,15,19	10	10	10	-	-	-	-	-
11	140-093	CONNECTOR, RECP, 1 COAX SOC, BNC	A14;J2-7,11,23	10	7	8	8	8	8	-	-
12	144-003	CONNECTOR, PLUG, AUDIO, 3 SOC	A5;P2,4,6,8	4	4	4	4	4	4	4	4
13	145-009	CONNECTOR, PLUG, AUDIO, 3 PIN	A5;P1,3,5,7	4	4	4	4	4	4	4	4
14	146-998	CONNECTOR, RECP, AUDIO, 3 SOC	A14;J13-16	4	4	4	4	4	4	4	4
15	147-999	CONNECTOR, RECP, AUDIO, 3 PINS	A14;J17-20	4	4	4	4	4	4	4	4
16	140-093	CONNECTOR, RECP, 1 COAX SOC, BNC	A14;J2-8,11,23							8	-
17	1379353-AA	COAX CABLE, JUMPER								1	2
18	166-199	CONNECTOR PART, CONTACT, SOC, 22-20 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
19	166-200	CONNECTOR PART, CONTACT, PIN, 22-20 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
20	166-224	CONNECTOR PART, CONTACT, SOC, 26-24 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
21	166-226	CONNECTOR PART, CONTACT, PIN, 26-24 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
22	166-227	CONNECTOR PART, CONTACT, PIN, 18-16 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
23	166-225	CONNECTOR PART, CONTACT, SOC	18-16AWG	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
24	1400905-03	PANEL, CONNECTOR, REAR								1	1
25	166-324	CONNECTOR PART, PLUG, CIR, 4 POS	A5;P20	1	1	1	1	1	1	1	1
26	166-857	CONNECTOR PART, PLUG, RECT, 34 POS	A5;P22,A8,11	2	2	2	2	2	2	2	2
27	166-859	CONNECTOR PART, PLUG, RECT, 75 POS	A5;P10	1	1	1	1	1	1	1	1
28	167-024	CONNECTOR PART, PLUG, RECT, 12 POS	A7;P1	1	1	1	1	1	1	1	1
29	167-026	CONNECTOR PART, PLUG, RECT, 24 POS	A6;P1,A8,P14	1	2	2	2	2	2	2	2
30	167-027	CONNECTOR PART, RECP, RECT, 24 POS	A8;J14	1	1	1	1	1	1	1	1
31	167-450	CONNECTOR PART, PLUG, RECT, 3 POS	A5;P23,A15,P6	2	2	2	2	2	2	2	2
32	167-669	CONNECTOR PART, RECP, CIR, 4 POS	A14;J21	1	1	1	1	1	1	1	1
33	169-455	ADAPTOR, CONN TO CONN, BNC EACH END	REF: A14 J1	1	1	1	1	1	1	1	1
34	169-539	CONNECTOR PART, RECP, RECT, 75 POS	A14;J22	1	1	1	1	1	1	1	1
35	140-092	CONNECTOR, PLUG, 1 COAX PIN, BNC	A5;P11-13,15,16,19 A8;P1-3,7,9,10							-	12
36	140-093	CONNECTOR, RECP, 1 COAX SOC, BNC	A14;J2-7,11,23							1	8
37	171-004	TERMINAL LUG, CRIMP, SPADE TONGUE, #6	REF: A15;TB1	3	3	3	3	3	3	3	3

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400906		SHEET 2		M	
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER							
				01	02	03	04	05	06	-07	-08
38	251-998	PLUG, BUTTON, FOR .625 DIA HOLE REF: A14J89,10,12		2	4	4	4	4	4	-	-
39	251-998	PLUG, BUTTON, FOR .625 DIA. HOLE REF: A14-J12.									-
40	251-998	PLUG, BUTTON, FOR .625 DIA. HOLE REF: A14;J8,12									2
41	302-200	CLAMP, CABLE, LOOP, OFFSET, .375 ID, .375WD, NYLON, BLK		1	1	1	1	1	1	1	1
42	302-335	STRAP, CABLE, .750 MAX DIA BDL	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
43	302-430	CLAMP, CABLE, LOOP, OFFSET, .688 ID, .500 WD, NYLON, BLK		1	1	1	1	1	1	1	1
44											
45											
46	470-010	SCREW, CAP, SOC HD, HEX SOC, 4-40 X .375 LG, CS, CAD PL		4	4	4	4	4	4	4	4
47	470-471	SCREW, CAP, BUT HD, HEX SOC, 4-40 X .312 LG, BLK OXD		4	4	4	4	4	4	4	4
48	471-381	SCREW, MACH, FLAT 82° HD, XREC DR, 4-40 X .375 LG, SST		16	16	16	16	16	16	16	16
49	472-954	SCREW, CAP, BUT HD, HEX SOC, 6-32 X .375 LG, BLK OXD		4	4	2	2	2	2	2	2
50	470-475	SCREW, CAP, BUT HD, HEX SOC 6-32X.5 BLK OXD			2	2	2	2	2	2	2
51											
52	496-004	NUT, HEX, CAPTIVE EXT TOOTH LOCK WASHER, 4-40		24	24	24	24	24	24	24	24
53	496-005	NUT, HEX, CAPTIVE EXT TOOTH LOCK WASHER, 6-32		4	4	4	4	4	4	4	4
54											
55											
56	501-008	WASHER, PLAIN, .125 ID, (#4) .312 OD, .032 THK, CS		20	20	20	20	20	20	20	20
57	501-169	WASHER, PLAIN, SMALL PATTERN, #4		4	4	4	4	4	4	4	4
58	501-684	WASHER, PLAIN, NYLON, .150 ID, .312 OD, .030 THK, BLK		4	4	4	4	4	4	4	4
59	501-894	WASHER, PLAIN, NYLON, .515 ID REF: A14;J1-7,9-11,23		1	1	1	1	1	1	1	1
60	501-986	WASHER, PLAIN, NYLON, .120 ID (#4) .281 OD, .030 THK, BLK		4	4	4	4	4	4	4	4
61											
62											
63	502-436	WASHER, SHOULDER, DELRIN, .500 ID REF: A14;J1-7,9-11,23		1	1	1	1	1	1	1	1
64											
65											
66	506-013	WASHER, "D", (#6) .578 WD		1	1	1	1	1	1	1	1
67	506-027	WASHER, "D", (#6) .438 WD		1	1	1	1	1	1	1	1
68											
69											
70	616-283	CABLE, SHLD & JKTD, SINGLE GAUGE, 2 COND, 22 AWG,	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
71	616-404	CABLE, SHLD & JKTD, SINGLE GAUGE, 3 COND, 18 AWG,	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
72	616-569	CABLE, COAX, SIGNAL CIRCUIT, 75 OHM,	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
73	616-591	CABLE SHEILD, 6 COND 24 AWG	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
74											
75		CABLE, SHIELDED & JACKETED, 24 AWG	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
76		SLEEVING, POLYOLEFIN, SHRINKABLE	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
77		WIRE, HOOKUP, 600V, 105° C, 24 AWG	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
78		WIRE, HOOKUP, 600V, 105° C, 20 AWG	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R
79		WIRE, HOOKUP, 600V, 105C 16 AWG	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R



Wiring Diagram No. 1400907J.
Console Harness

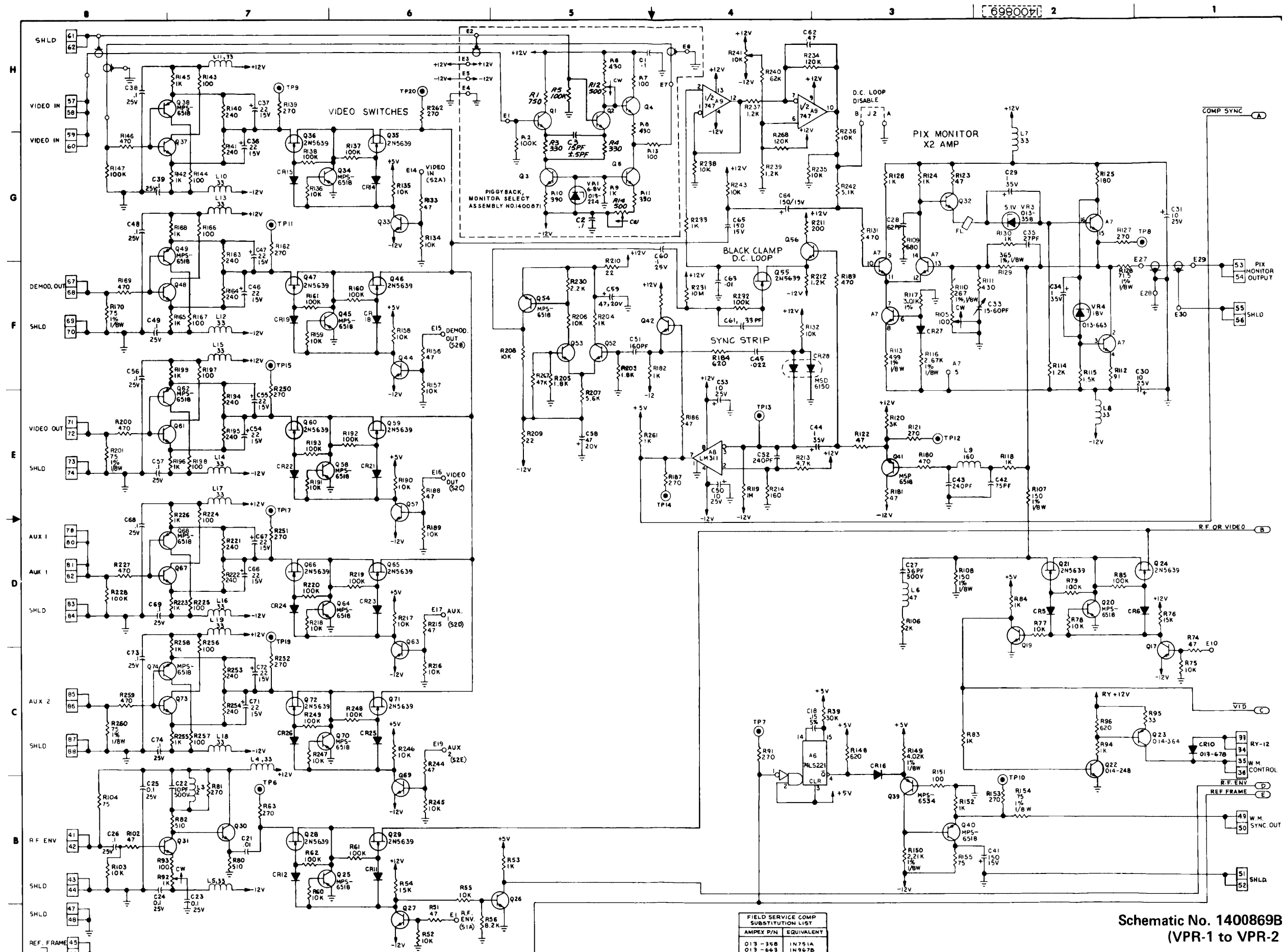


NOTES: UNLESS OTHERWISE SPECIFIED;

1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
2. CAPACITANCE VALUES ARE IN MICROFRADS, 12V, +80%, -20%.

REFERENCE DESIGNATIONS	
LAST USED	NOT USED
C2	
DS4	
E18	
J14	J1-13
R22	R8,11
S6	
VR2	

Schematic No. 1400857A.
TBC Console Modification Kit



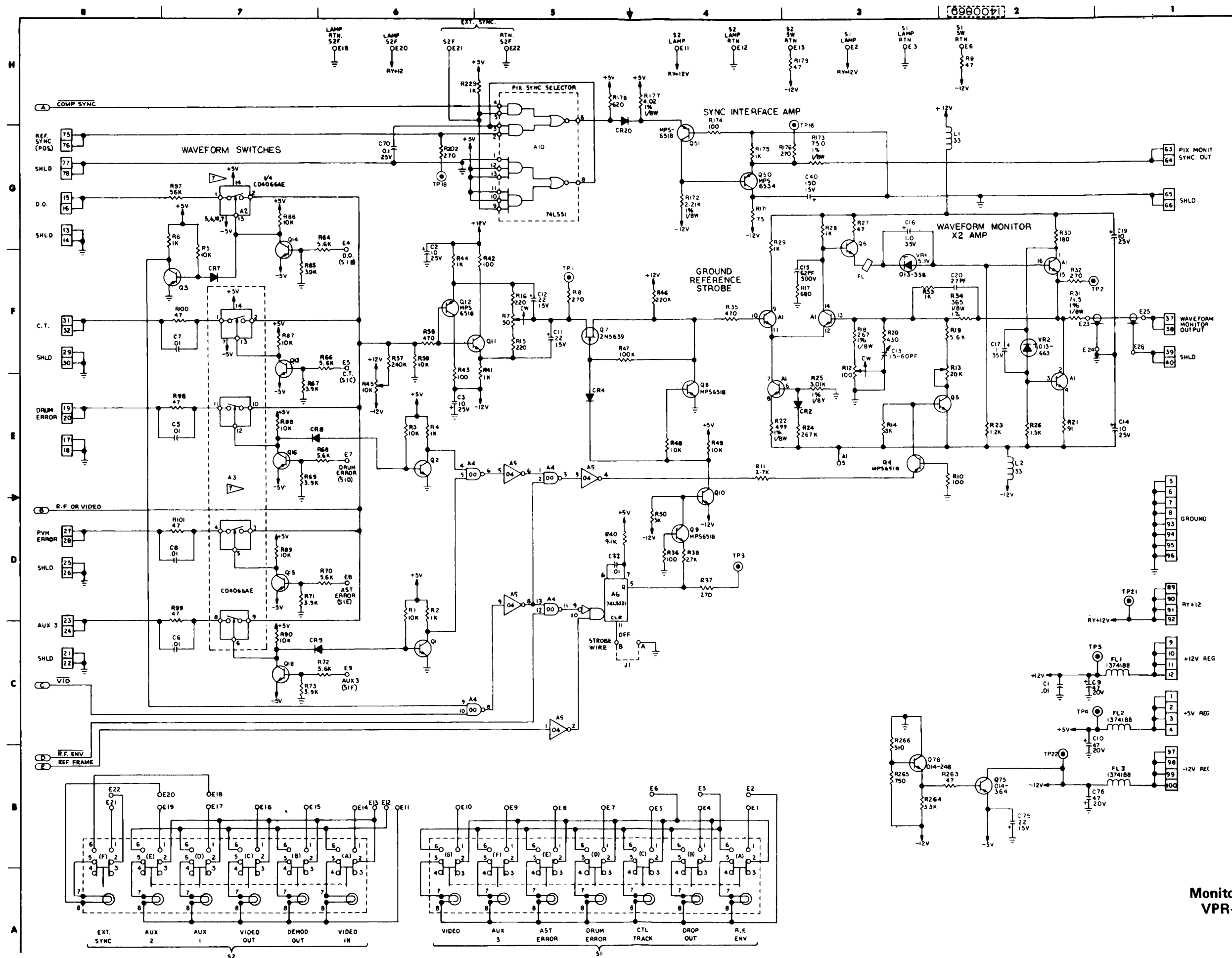
NOTES:
 1. RESISTORS ARE IN OHMS, 1/4W 5%
 2. CAPACITORS ARE IN MICROFARADS, 50V, 20%
 3. INDUCTORS ARE IN MICROMHRES, 5%
 4. DIODES ARE PN 013-689
 5. TRANSISTORS ARE MPS 6514
 6. SUSCEPTIBLE TO STATIC DAMAGE, SPECIAL HANDLING REQUIRED PER HC2-36.

REF DES	A1,7	A2,3	A8	A4	A10	A6	A5	A9
AMPEX P/N	587-749	587-680	587-891	587-510	587-514	587-537	587-533	586-440
VENDOR P/N	C30B3	CD4066	LM311M	74LS00M	74LS11M	74LS22M	74LS04M	747
VOLTAGE PIN	(+5V) 14	(+12V) 8	(+5V) 14	(+5V) 14	(+5V) 14	(+5V) 14	(+5V) 14	(+5V) 14
GROUND PIN	(-5V) 7	(-12V) 4	(-12V) 4	(-12V) 4	(-12V) 4	(-12V) 4	(-12V) 4	(-12V) 4

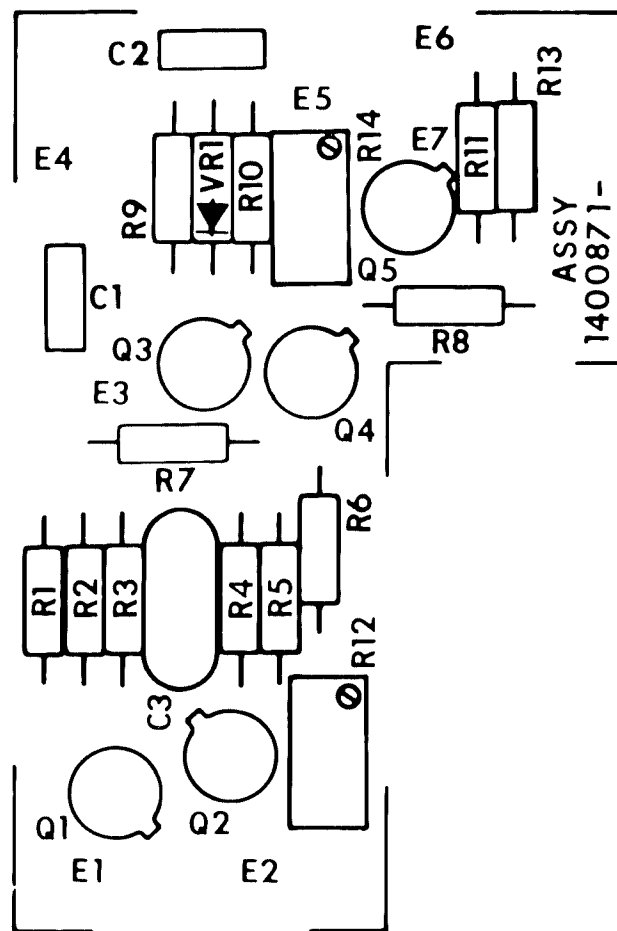
REFERENCE DES.	
LAST USED	NOT USED
A10	
R281	Q43
Q76	
CR28	CR1,3,13,17
C78	C4
L19	

FIELD SERVICE COMP	AMPEX P/N	EQUIVALENT
Q13 - 358	Q13	IN751A
Q13 - 663	Q13	IN751A
Q13 - 678	Q13	IN751A
Q13 - 689	Q13	IN751A
Q13 - 839	Q13	IN751A
Q14 - 248	Q14	2N2222
Q14 - 364	Q14	2N2222
Q14 - 406	Q14	2N2222
Q14 - 453	Q14	2N2222
Q14 - 780	Q14	2N2222
Q14 - 781	Q14	2N2222

Schematic No. 1400869B. Monitor Select (MOD)
 (VPR-1 to VPR-2 Console Conversion Kit)
 (Sheet 1 of 2)

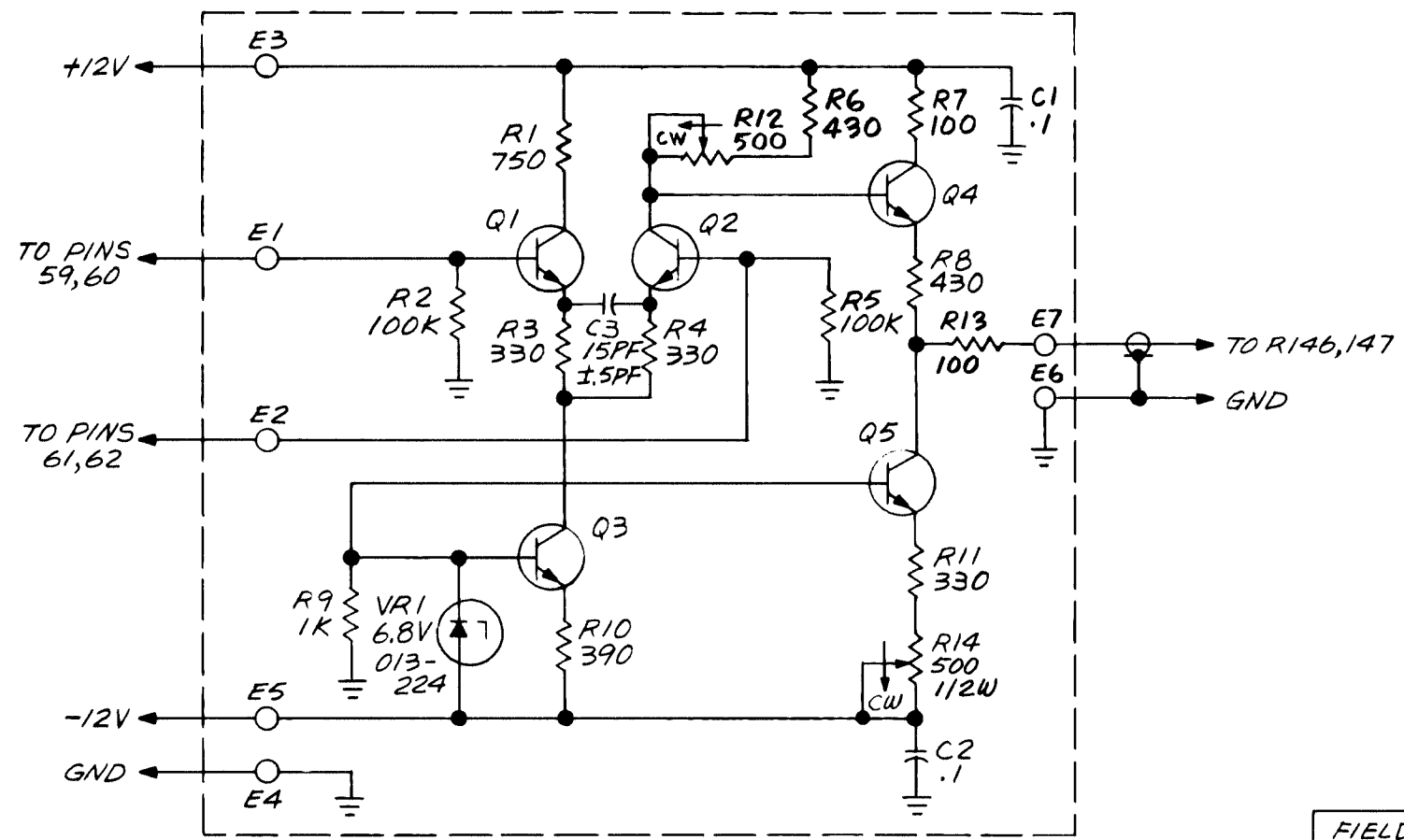


Schematic No. 1400869B.
Monitor Select (MOD) (VPR-1 to
VPR-2 Console Conversion Kit)
(Sheet 2 of 2)



Assembly No. 1400871-03C. Monitor Select Piggyback PWA

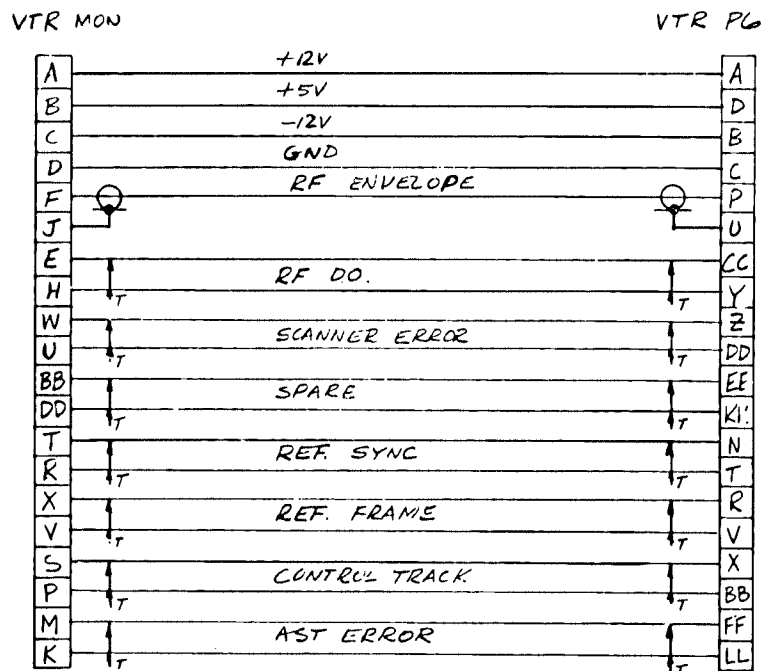
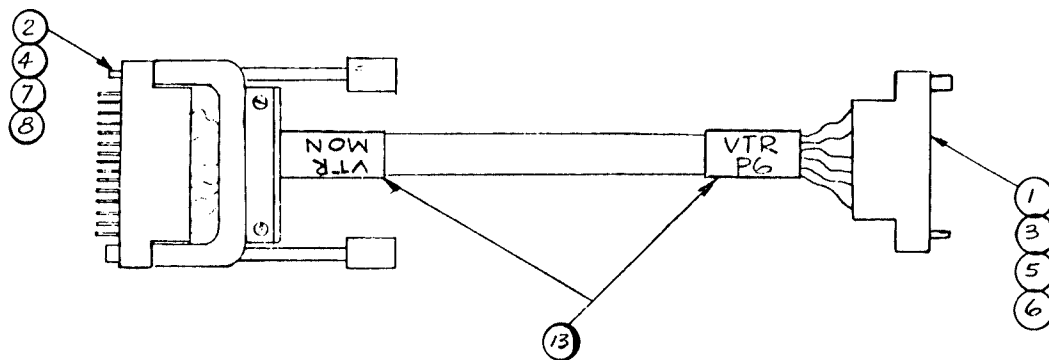
D
C
B
A



- NOTES:
- 1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
 - 2. CAPACITANCE VALUES ARE IN MICROFARADS, 100V, $\pm 10\%$.
 - 3. ALL TRANSISTORS ARE 014-5B1.
 - 4. SCHEMATIC REFLECTS PWA 1400873-03.

FIELD SERVICE COMPONENT SUBSTITUTION LIST	
AMPEX P/N	NEAREST COMM. EQUIV.
013-224	1N754 A
014-5B1	2N2369 A

REFERENCE DESIGNATIONS	
LAST USED	NOT USED
C3	
E7	
Q5	
R14	
VR1	



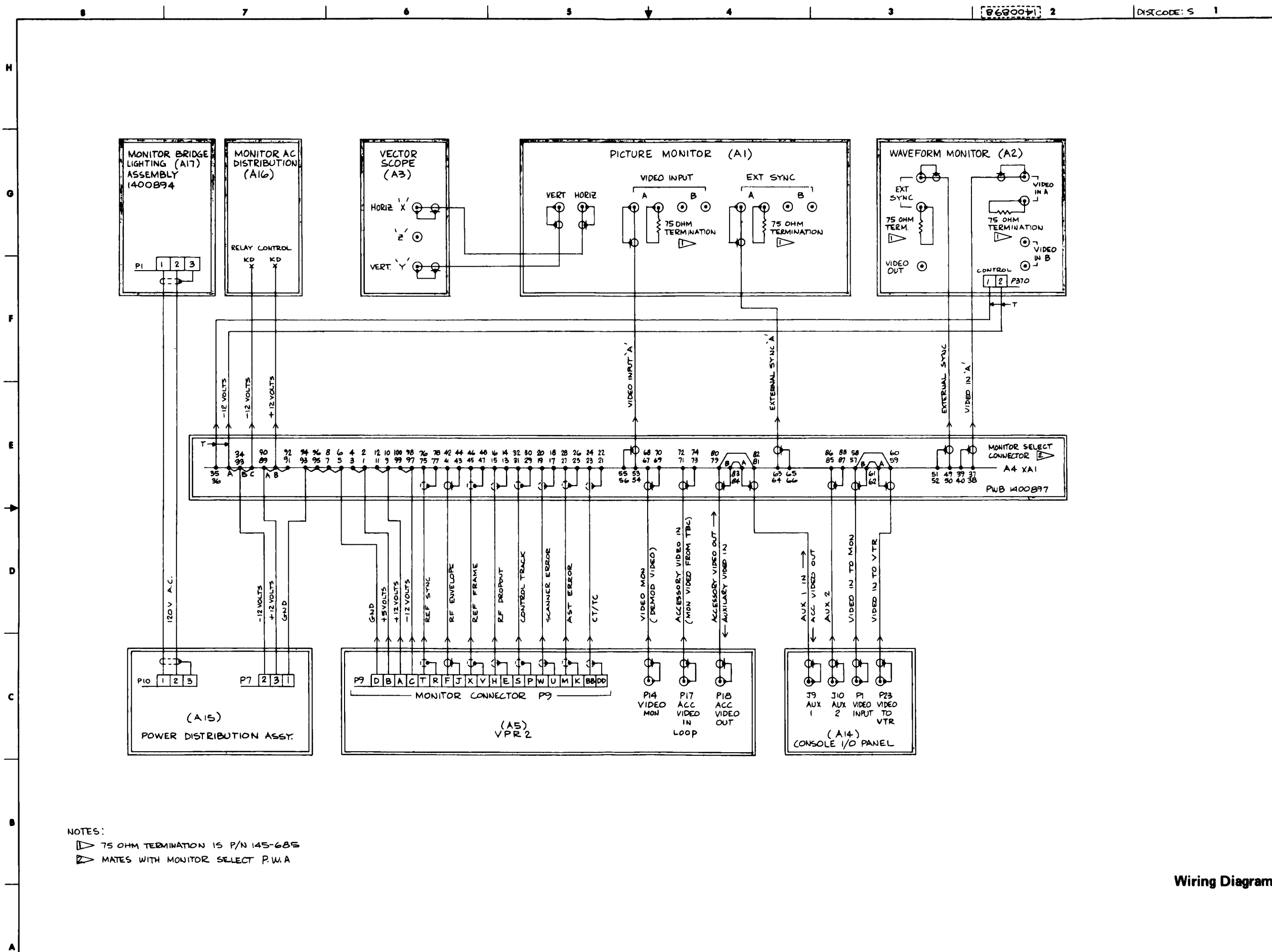
WIRING DIAGRAM

A/R	13		SLEEVING, SHRINK	
A/R	12		WIRE STRANDED 20 AWG	
A/R	11		WIRE STRANDED 24 AWG	
A/R	10	616-569	CABLE CO AX, 7500	
A/R	9	302-335	STRAP CABLE	
A/R	8	166-227	CONTACT PIN 1896 AWG	
A/R	7	166-226	PIN 26-24 AWG	
A/R	6	166-225	SOC 16-18 AWG	
A/R	5	166-224	SOC 26-24 AWG	
A/R	4	166-200	PIN 22-20 AWG	
A/R	3	166-199	CONTACT SOC 22-20 AWG	
I	2	166-856	CONNECTOR, PLUG, 42 PCS	VTR MON
I	1	169-719	CONNECTOR, RECEPT, 34 PCS	VTR P6
QI			QTY	

Assembly No. 1400878-01C. Monitor Bridge Adaptor Cable Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				01	02	03	04								
1	1373004-01	P.C. GUIDE		2	2	2	2								
2	1373391-01	POWER DUCT ASSY		1	1	1	1								
3	1400891-01	P.W.A. MONITOR SELECT		1	-	-	-								
4	1379146-06	FRAME, MONITOR BRIDGE				1	1								
5	1400891-11	PWA, MONITOR SELECT			1	1	1								
6	1379146-04	FRAME, MONITOR BRIDGE		1	1	-	-								
7	1379147-01	STRAP, SCOPE SUPPORT		2	2	2	2								
8	1379148-01	PANEL, SIDE		2	2	2	2								
9	1379149-01	PANEL, TOP MONITOR BRIDGE		1	1	1	1								
10	1379150-01	PANEL, BOTTOM MONITOR BRIDGE		1	1	-	-								
11	1379151-02	BRACKET, POWER DUCT MTG		1	1		1								
12	1379152-02	SHIELD, PC BOARD, MONITOR SELECT		1	1	1	1								
13	1379153-01	BRACKET, SHIELD SUPPORT		1	1	1	1								
14	1379154-02	PANEL, MONITOR SELECT		1	1	1	1								
15	1379157-02	BRACKET, CONNECTOR MTG		2	2	2	2								
16	1379158-01	SUPPORT, MONITOR BRIDGE		2	2	2	2								
17	1379159-01	COVER, MONITOR BRIDGE SUPPORT		2	2	2	2								
18	1379160-01	PANEL, REAR, MONITOR BRIDGE		1	1		1								
19	1400899-02	HARNESS ASSY		1	-	-	-								
20	1400898	WIRING DIAGRAM MONITOR BRIDGE		A	C	D	E								
21	1400899-06	HARNESS ASSEMBLY					1								
22	1400899-03	HARNESS ASSEMBLY		-	1	-	-								
23	1379243-01	CAP, MONITOR BRIDGE SUPPORT		2	2	2	2								
24	1379340-01	NUT PLATE, MONITOR SELECT		1	1	1	1								
25	6000035-01	LABEL SERIALIZED		1	1	1	1								
26	1400894-01	PANEL ASSEMBLY, BOTTOM MONITOR BRIDGE					1								
27															
28	018-019	ADHESIVE, EASTMAN 910		A/R	A/R	A/R	A/R								
29	020-941	RELAY		1	1	1	1								
30	145-685	TERMINATION, RESISTOR, BNC, 75 OHM, 0.5%, 0.5W		4	4	4	4								
31	260-052	GROMMET (CAT TRACK)		A/R	A/R	A/R	A/R								
32	260-206	GROMMET		1	5	5	5								
33	302-335	TIEWRAP		16	16	16	16								
34	302-407	TIEWRAP BASE		3	3	3	3								
35	302-451	TIEWRAP BASE		6	6	6	6								
36	310-852	RETAINER		4	4	4	4								
37	310-872	FASTENER, 1/4 T. OVAL HD		4	4	4	4								

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400890				SHEET 2		W		
ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
					-01	-02	03	-04						
38	310-871		RECEPTACLE, 1/4 T. FASTENER		4	4	4	4						
39														
40														
41	430-509		RETAINER		6	6	6	6						
42	470-038		SCREW, SOC HD, 10-32 X .50 LG		14	14	14	14						
43	471-062		SCREW, MACH, PAN HD, ASSY WASHER 4-40 X .375		2	2	2	2						
44	471-066		SCREW, MACH, PAN HD, ASSY WASHER 6-32 X .188		8	8	8	8						
45	471-085		SCREW, MACH, PAN HD, 10-32 X .25 LG		8	8	8	8						
46	471-087		SCREW, MACH, PAN HD, 10-32 X .375 LG		8	8	8	8						
47	472-453		SCREW, MACH, PAN HD, 2-56 X .312		2	2	2	2						
48	472-954		SCREW, 6-32 X .38 LG, BUT HD, BLK OXIDE		22	22	22	22						
49	473-333		SCREW, MACH, PAN HD, ASSY WASHER, #8-32 X .750 LG		4	4	4	4						
50	473-703		SCREW, 8-32 X .375 LG, BUT HD, BLK OXIDE		6	6	6	6						
51	473-704		SCREW, 10-32 X .38 LG, BUT HD, BLK OXIDE		2	2	2	2						
52	473-937		SCREW, 10-32 X .75 LG, DRESS, GREY		4	4	4	4						
53	475-058		SCREW, MACH, PAN HD, ASSY WASHER, 6-32 X .38		10	10	10	10						
54	475-061		SCREW, MACH, PAN HD, ASSY WASHER, 8-32 X .50		8	4	4	4						
55	492-466		NUT, HEX 2-56, SMALL PAT		2	2	2	2						
56	496-004		NUT, HEX, ASSY WASHER, 4-40		2	2	2	2						
57	496-005		NUT, HEX, ASSY WASHER, 6-32		10	10	10	10						
58	496-006		NUT, HEX, ASSY WASHER, 8-32		2	2	2	2						
59	496-007		NUT, HEX, ASSY WASHER, 10-32		8	8	8	8						
60	498-600		RECEPTACLE, "U" TYPE, 8-32		8	4	4	4						
61	310-938		FASTENER "U" CLAMP		-	4	4	4						
62														
63	501-008		WASHER, FLAT, #4		2	2	2	2						
64	501-009		WASHER, FLAT, #6		2	2	2	2						
65	501-070		WASHER, FLAT, #10		24	24	24	24						
66	501-184		WASHER, FLAT, #2, SMALL PAT		2	2	2	2						
67	501-205		WASHER, FLAT, #8		14	14	14	14						
68	501-684		WASHER, FLAT, #6, BK, NYLON		22	22	22	22						
69	502-001		WASHER, SPRING, LOCK, #2		2	2	2	2						
70	502-004		WASHER, SPRING, LOCK, #8		4	4	4	4						
71	502-025		WASHER, IN-TH, LOCK, #6		8	8	8	8						
72	502-027		WASHER, IN-TH, LOCK, #10		14	14	14	14						
73	503-073		WASHER, FLAT, #10, BK, NYLON		2	2	2	2						
74	503-310		WASHER, FLAT, #8, BK, NYLON		6	6	6	6						
75	530-325		FRAME, MONITOR MTG		2	2	2	2						
76														
77														
78			TUBING, SHRINK		A/R	A/R	A/R	A/R						



NOTES:
 ▽ 75 OHM TERMINATION IS P/N 145-685
 ▽ MATES WITH MONITOR SELECT P.W.A

Wiring Diagram No. 1400898E.
 Monitor Bridge

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-11	-02	-03	-04	-05	-06	-07	-08	-09	-10
1					01	02	03	04	05	06	07	08	09
2	1400893	SCHEMATIC	M	(→)	A	C	D	E	F	G	H	K	
3													
4	1379155-01	BRACKET, SWITCH MOUNTING	1	1	1	1	1	1	1	1	1	1	1
5													
6	013-678	DIODE, G.P. CD451, 1N4385	CR10	1	1	1	1	1	1	1	1	1	1
7	013-689	DIODE, CD6016	CR2,4-9,11,12,14,15,16,18-27	22	22	22	22	22	22	22	22	22	22
8	013-358	DIODE, ZENER, 5.1V, CD32, 1N751	VR1,3	2	2	2	2	2	2	2	2	2	2
9	013-663	DIODE, ZENER, 18V, CD32, 1N967	VR2,4	2	1	2	2	2	2	2	2	2	2
10	013-839	DIODE, ASSY, SWITCHING, MSD 6150	CR28	1	1	1	1	1	1	1	1	1	1
11	1379156-02	STRAP, PWA RETAINER		1	1	1	1	1	1	1	1	1	1
12	1379341-01	SUPPORT, PWA		1	1	1	1	1	1	1	1	1	1
13	013-224	DIODE, ZENER, 6.8V 1N754	VR5	1	1	1	1	1	1	1	1	1	1
14	013-599	DIODE, SILICON, SWITCHING, 1N4531	CR29	1	1	1	1	1	1	1	1	1	1
15	034-759	CAPACITOR, MICA, 15pF, ±.5pF	C79	1	1	1	1	1	1	1	1	1	1
16	034-215	CAPACITOR, MICA, 10pF, ±.5pF	C22	1	1	1	1	1	1	1	1	1	1
17	034-943	CAPACITOR, MICA, 27pF, ± 5%	C20,35	2	2	2	2	2	2	2	2	2	2
18	034-942	CAPACITOR, MICA, 36pF, ± 5%	C27	1	1	1	1	1	1	1	1	1	1
19	034-183	CAPACITOR, MICA, 62pF, ± 5%	C15,28	2	2	2	2	2	2	2	2	2	2
20	034-185	CAPACITOR, MICA, 75pF, ± 5%	C42	1	1	1	1	1	1	1	1	1	1
21													
22	034-962	CAPACITOR, MICA, 33pF, ± 5%	C61	1	1	1	1	1	1	1	1	1	1
23	034-937	CAPACITOR, MICA, 160pF, ± 5%	C51	1	1	1	1	1	1	1	1	1	1
24	034-935	CAPACITOR, MICA, 240pF, ± 5%	C43,52	2	2	2	2	2	2	2	2	2	2
25													
26													
27													
28													
29	069-097	CAPACITOR, POLY., .022uF, ± 5%, 50V	C45	1	1	1	1	1	1	1	1	1	1
30	069-115	CAPACITOR, POLY., .15uF, ± 5% 50V	C18	1	1	1	1	1	1	1	1	1	1
31													
32	030-095	CAPACITOR, MONO, 0.1uF, 25V, 20%	C23-26,38,39,48,49 56,57,60,68-70,73,74	16	16	16	16	16	16	16	16	16	16
33													
34													
35	030-963	CAPACITOR, MONO. .1uF ± 10%, 100V	C77,78	2	2	2	2	2	2	2	2	2	2
36	064-116	CAPACITOR, CER., 0.01uF, 50V, -20%	C1,5-8,21,32,63	-	8	8	8	-	-	-	-	-	-
37	064-116	CAPACITOR, CER., 0.01uF, 50V, -20%	C1,5,7,8,21,32,63	7									

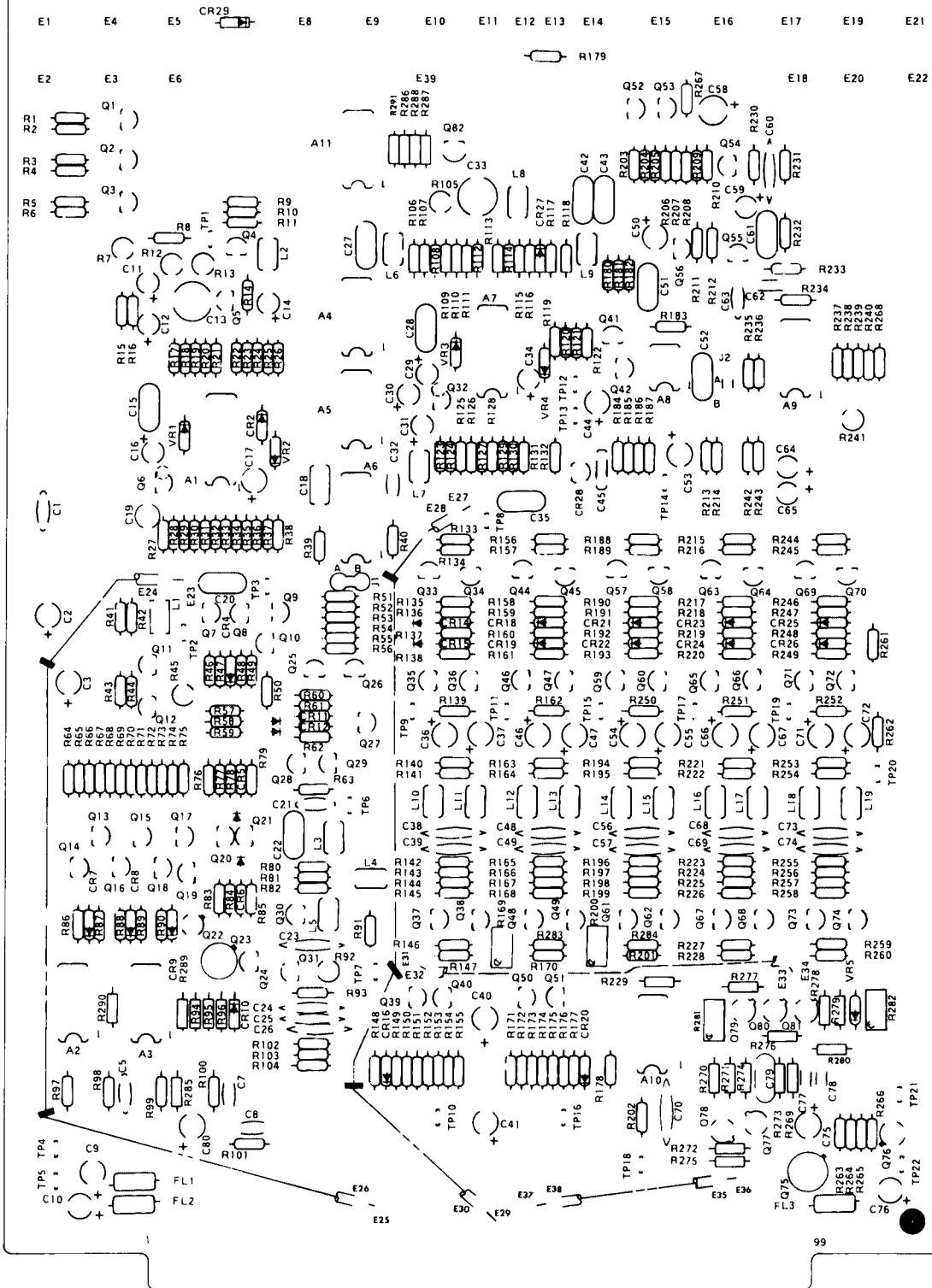
AMPEX Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400891 SHEET 2	REV 62								
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-11	-02	-03	-04	-05	-06	-07	-08	-09	-10
38	064-309	CAPACITOR, CER. MONO, .47uF, 100V, +20% C62	1	1	1	1	1	1	1	1	1	1	1
39													
40													
41													
42	037-591	CAPACITOR, TANT, 1uF, 35V, +20% C16,17,29,34,44	5	5	5	5	5	5	5	5	5	5	5
43	037-812	10uF, 25V, + 20% C2,3,14,19,30,31,50,53	8	8	8	8	8	8	8	8	8	8	8
44	037-892	47uF, 20V ±20% C9,10,58,59,76	-	5	5	5	5	5	-	-	-	-	-
45	037-954	22uF, 15V, + 20% C11,12,36,46,47,54	13	13	13	13	13	13	13	13	13	13	13
46	037-960	CAPACITOR, TANT, 150uF, 15V, + 20% C40,41,64,65	4	4	4	4	4	4	4	4	4	4	4
47	037-892	CAPACITOR, TANT, 47uF, 20V, ± 20% C9,10,58,59,76,80	6						6	6	6	6	6
48													
49													
50	038-248	CAPACITOR, VARIABLE, 15-60pF C13,33	2	2	2	2	2	2	2	2	2	2	2
51													
52	932-035	FERRITE BEAD REF: Q6-E, Q32-E	2	2	2	2	2	2	2	2	2	2	2
53	1374188-01	INDUCTOR, FILTER FL1, FL2, FL3	3	3	3	3	3	3	3	3	3	3	3
54	014-780	TRANSISTOR, MPS6514 Q1,2,3,5,6,10,11,13-19,26,27,30-33,37,42,44,48,52,53,56,57,61,63,67,69,73,82	34					34	34	34	34	34	34
55													
56													
57	051-897	INDUCTOR, FIXED, 2.2uH ± 10% L3	1	1	1	1	1	1	1	1	1	1	1
58	068-058	INDUCTOR, FIXED, 33uH, + 5% L1,2,4,5,7,8,10-19	16	16	16	16	16	16	16	16	16	16	16
59													
60	068-023	INDUCTOR, FIXED, 47uH, +5% L6	1	1	1	1	1	1	1	1	1	1	1
61	068-062	INDUCTOR, FIXED, 160uH, + 5% L9	1	1	1	1	1	1	1	1	1	1	1
62													
63													
64		RESISTOR, FIXED, C.F. 1/4W, 5%											
65	066-660	22 OHM R209,210	2	2	2	2	2	2	2	2	2	2	2
66	066-834	33 OHM R95	1	1	1	1	1	1	1	1	1	1	1
67	066-938	47 OHM R9,27,51,74,98,100-102,122,123,133,156,179	20	20	20	20	20	20	20	20	20	20	20
68		181,185,186,188,215,244,263											
69													
70	076-045	75 OHM R104,155,171	3	3	3	3	3	3	3	3	3	3	3
71	066-836	91 OHM R21,112	2	2	2	2	2	2	2	2	2	2	2
72	066-812	100 OHM RT0,36,42,43,93,143,151,166,167,174,144,197,198,211,224,225,256,257,271,144	-	20	-	-	-	-	-	-	-	-	-
73													
74	066-984	160 OHM R214	1	1	1	1	1	1	1	1	1	1	1
75	076-004	180 OHM R30,125	2	2	2	2	2	2	2	2	2	2	2
76	066-838	330 OHM R273,274,276	-	3	-	-	-	-	-	-	-	-	-
77	066-859	240 OHM R140,141,163,164,194,195,221,222,253,254	10	10	10	10	10	10	10	10	10	10	10
78	066-816	390 OHM R278,279	2	2	2	2	2	2	2	2	2	2	2
79	066-814	270 OHM R32,37,63,81,91,121,127,139,153,162,176,187,202,250,251,252,262,8	18	18	18	18	18	18	18	18	18	18	18
80													
81	066-817	RESISTOR, FIXED, C.F. 430 OHM, 1/4W, 5% R20,111,270	-	3	-	-	-	-	-	-	-	-	-
82	066-820	RESISTOR, FIXED, C.F. 750 OHM, 1/4W, 5% R265,269	2	2	2	2	2	2	2	2	2	2	2

AMPEX Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1400891 SHEET 3	REV								
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-11	-02	-03	-04	-05	-06	-07	-08	-09	-10
83	066-818	RESISTOR, FIXED, C.F., 470 OHM, 1/4W, 5% R35,58,131,146,169	-	10	10	10	-	-	-	-	-	-	-
84	066-664	510 OHM, R80,82,266	3	3	3	3	3	3	3	3	3	3	3
85	066-819	620 OHM R96,148,178,184	4	4	4	4	4	4	4	4	4	4	4
86	066-840	680 OHM R17,109	2	2	2	2	2	2	2	2	2	2	2
87	066-665	1K R2,4,6,28,29,33,41 44,53,83,84,94,118	-	34	34	34	34	-	-	-	-	-	-
88		124,126,130,142,145 152,165,168,175,182											
89		196,199,204,223,226 233,255,258,261,229,277											
90	066-838	330 OHMS, R273,274,279	3	3	3	3	3	3	3	3	3	3	3
91	066-816	390 OHMS, R278	1	1	1	1	1	1	1	1	1	1	1
92	066-817	430 OHMS, R20,111,270,276	4	4	4	4	4	4	4	4	4	4	4
93	066-717	47K R267	1	1	1	1	1	1	1	1	1	1	1
94	066-818	470 Ω R35,58,131,146,180, 183,227,259	8	-	-	-	8	8	8	8	8	8	8
95	066-715	1.2K R23,114,212,237,239	5	5	5	5	5	5	5	5	5	5	5
96	066-824	1.5K R26,115	2	2	2	2	2	2	2	2	2	2	2
97	066-826	2K R106	1	1	1	1	1	1	1	1	1	1	1
98	066-689	2.2K, R230	-	1	1	1	1	-	-	-	-	-	-
99	066-666	2.7K R11,38	2	2	2	2	2	2	2	2	2	2	2
100	066-667	3.0K R14,50,120	3	3	3	3	3	3	3	3	3	3	3
101	066-812	100 OHMS, R10,36,42,43,93, 143,144,151,166,	20	20	20	20	20	20	20	20	20	20	20
102		167,174,197,198, 211,224,225,256,											
103		257,271,280											
104	066-720	3.3K R264	-	1	1	1	-	-	-	-	-	-	-
105	066-827	3.9K R65,67,69,71,73	-	5	5	5	5	-	-	-	-	-	-
106	066-718	5.6K R19,64,66,68,70, 72,207	-	7	7	7	7	-	-	-	-	-	-
107	066-670	9.1K R40	1	1	1	1	1	1	1	1	1	1	1
108	066-830	10K R1,3,5,48,49,52,55 59,60,75,77,78,86-90 103,132,134-136	-	40	40	40	40	-	-	-	-	-	-
109		157-159,189-191,206 208,216-218,235,236											
110		238,243,245-247											
111	066-842	5.1K R242	1	1	1	1	1	1	1	1	1	1	1
112	066-856	15K R54,76	2	2	2	2	2	2	2	2	2	2	2
113	066-846	30K R39	1	1	1	1	1	1	1	1	1	1	1
114	066-849	100K R47,61,62,79,85,137,147 138,160,161,192,193, 219,220,228,232,248,249 272,275,	20	-	20	20	20	20	20	20	20	20	20
115		247,61,62,79,85,137,147 138,160,161,192,193, 219,220,232,248,249 272,275		19	-	-	-	-	-	-	-	-	-
116	066-849	100K	-	19	-	-	-	-	-	-	-	-	-
117													
118	066-720	3.3K R264,283,284	3	-	-	-	3	3	3	3	3	3	3
119	066-689	2.2K R99,230	2	-	-	-	2	2	2	2	2	2	2
120	066-833	56K R97	1	1	1	1	1	1	1	1	1	1	1
121	066-913	220K R46	1	1	1	1	1	1	1	1	1	1	1
122	066-850	240K R57	1	1	1	1	1	1	1	1	1	1	1
123	066-673	1 MEG R119	1	1	1	1	1	1	1	1	1	1	1
124	066-663	RESISTOR, FIXED, C.F., 220 OHM, 1/4W, 5% R15,16	2	2	2	2	2	2	2	2	2	2	2
125	066-668	RESISTOR, FIXED, C.F. 4.7K, 1/4W, 5% R213	1	1	1	1	1	1	1	1	1	1	1
126	062-836	RESISTOR, FIXED, 75 OHMS, 1/2, 1/8W R154,170,173 201,228,260	-	6	-	-	-	-	-	-	-	-	-
127	062-833	RESISTOR, FIXED, MF., 71.5 OHM ± 1% 1/8W R31,128	2	2	2	2	2	2	2	2	2	2	2

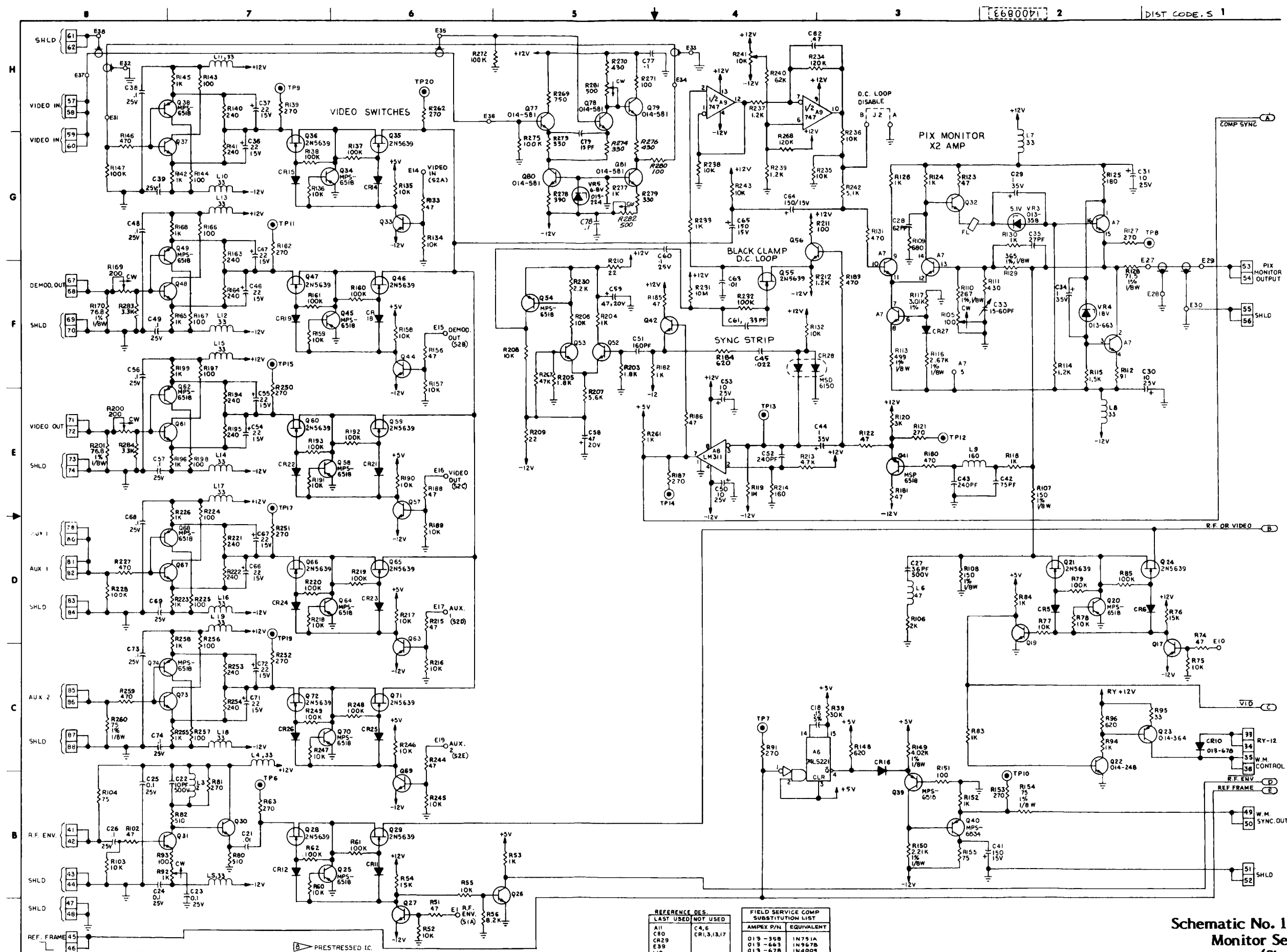
AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1400891	SHEET 4	REV 02								
ITEM NO.	PART NUMBER	DESCRIPTION			REF DESIG	QTY REQD PER DASH NUMBER										
						-11	-10	-09	-08	-07	-06	-05	-04	-03	-02	-01
128	062-836	RESISTOR, FIXED, M.F., 75.0 OHM, $\pm 1\%$, 1/8W			R154,170,173 201,260	-	1	5	5	-	-	-	-	-	-	-
129	062-864	150 OHM,			R107,108	2	2	2	2	2	2	2	2	2	2	2
130	057-847	267 OHM,			R18,110	2	2	2	2	2	2	2	2	2	2	2
131	062-890	365 OHM,			R34,129	2	2	2	2	2	2	2	2	2	2	2
132	062-902	499 OHM,			R22,113	2	2	2	2	2	2	2	2	2	2	2
133	062-949	2.67K			R24,116	2	2	2	2	2	2	2	2	2	2	2
134	062-639	3.01K			R25,117	2	2	2	2	2	2	2	2	2	2	2
135	062-941	2.21K			R150,172	2	2	2	2	2	2	2	2	2	2	2
136	062-962	RESISTOR, FIXED, M.F., 4.02K, $\pm 1\%$, 1/8W			R149,177	2	2	2	2	2	2	2	2	2	2	2
137	066-868	RESISTOR, FIXED, C.F. 120K, 1/4W, 5%			R234,268	2	2	2	2	2	2	2	2	2	2	2
138	066-852	RESISTOR, 62K			R240	1	1	1	1	1	1	1	1	1	1	1
139	066-675	RESISTOR, FIXED, C.F., 1.8K, 1/4W, 5%			R203,205	2	2	2	2	2	2	2	2	2	2	2
140	066-669	RESISTOR, FIXED, D.F., 8.2K, 1/4W, 5%			R56	1	1	1	1	1	1	1	1	1	1	1
141	041-793	RESISTOR, COMP. 10M, 1/4W, 5%			R231	1	1	1	1	1	1	1	1	1	1	1
142	062-836	RESISTOR, FIXED, M.F., 75 Ω , $\pm 1\%$, 1/8W			R154,173,260	3	-	-	-	3	3	3	3	3	3	3
143	014-780	TRANSISTOR, MPS 6514			Q1-3,5,6,10,11,13-19 26,27,30-33,37,42,44, 48,52,53,56,57,61,63, 67,79,73	-	33	-	-	-	-	-	-	-	-	-
144																
145	014-781	TRANSISTOR, MPS 6518			Q4,8,9,12,20,25,34,38, 39,41,45,49,51,54,58, 62,64,68,70,74	20	20	20	20	20	20	20	20	20	20	20
146																
147	014-406	TRANSISTOR, MPS 6534			Q40,50	2	2	2	2	2	2	2	2	2	2	2
148	014-248	CD37, (2N2222)			Q22,76	2	2	2	2	2	2	2	2	2	2	2
149	014-364	CD438 (2N2905)			Q23,75	2	2	2	2	2	2	2	2	2	2	2
150	580-453	TRANSISTOR, 2N5639, FET			Q7,21,24,28,29,35,36,46, 55,59,60,65,66,71,72,47	16	16	16	16	16	16	16	16	16	16	16
151	014-581	TRANSISTOR, 2N2369			Q77-81	5	5	5	5	5	5	5	5	5	5	5
152	280-130	TRANSISTOR SPACER, TO-18 REF: Q22,76,77-81				7	7	7	7	7	7	7	7	7	7	7
153	280-998	" " TO-5 REF: Q23,75				2	2	2	2	2	2	2	2	2	2	2
154	590-534	INTEGRATED CIRCUIT, 747			A9	1	1	1	1	1	1	1	1	1	1	1
155	590-559	CA 3083			A1,7	2	2	2	2	2	2	2	2	2	2	2
156	590-618	CD4066			A2,3	2	2	2	2	2	2	2	2	2	2	2
157	590-605	LM311N			A8	1	1	1	1	1	1	1	1	1	1	1
158	589-814	74LS04N			A5	1	1	1	1	1	1	1	1	1	1	1
159	587-510	74LS00N			A4	-	1	1	1	-	-	-	-	-	-	-
160	590-548	74LS51N			A10	1	1	1	1	1	1	1	1	1	1	1
161	589-934	INTEGRATED CIRCUIT, 74LS221N			A6	1	1	1	1	1	1	1	1	1	1	1
162	058-564	RESISTOR, VARIABLE, 500 OHMS, 1/2W			R281,282	2	2	2	2	2	2	2	2	2	2	2
163	058-564	RESISTOR VARIABLE, 500 OHM, 1/2W			R281	-	1	-	-	-	-	-	-	-	-	-
164	044-940	RESISTOR, VARIABLE, 50 OHM, 1/2W			R7	1	1	1	1	1	1	1	1	1	1	1
165	044-941	100 OHM			R12,105	2	2	2	2	2	2	2	2	2	2	2
166	058-610	20K			R13	1	1	1	1	1	1	1	1	1	1	1
167	058-004	1K			R92	1	1	1	1	1	1	1	1	1	1	1
168	058-611	RESISTOR, VARIABLE, 10K, 1/2W			R45,241	2	2	2	2	2	2	2	2	2	2	2
169	143-981	JACK, PC TIP			J1A,B,JA,B	4	4	4	4	4	4	4	4	4	4	4
170	187-259	TEST LUGS			TP1-22	22	22	22	22	22	22	22	22	22	22	22
171	589-813	INTEGRATED CIRCUIT, 74LS00N			A4,11	2				2	2	2	2	2	2	2
172	119-310	SWITCH, PUSHBUTTON, 7 POS INTERLOCKING			S1	1	1	1	1	1	1	1	1	1	1	1

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1400891	SHEET 5										REV 52		
ITEM NO.	PART NUMBER	DESCRIPTION			REF DESIG	QTY REQD PER DASH NUMBER													
						-11	-12	-13	-14	-15	-16	-17	-18	-19	-20				
173	119-462	SWITCH, PUSHBUTTON, 6 POS, 5 INTERLOCKING, 1 ALT ACTION S2			1	1	1	1	1	1	1	1	1	1	1				
174	302-395	MOUSE TAIL, STRAP, CABLE			5					5	5	5	5	5	5				
175	060-407	LAMP, 14V, #382 REF: S1,2			13	13	13	13	13	13	13	13	13	13	13				
176	014-780	TRANSISTOR, MPS6514 Q1-3,5,6,10,11,13-19,26,27,30-33,37,42,44,48,52,53,56,57,61,63,67,69,73			-	33	33	33	-	-	-	-	-	-	-				
177	1379273-AR	LENS, PUSHBUTTON, CT/TC			1														
178	1379273-AA	LENS, PUSHBUTTON, VIDEO IN			1	1	1	1	1	1	1	1	1	1	1				
179	1379273-AB	↑	DEMOC OUT		1	1	1	1	1	1	1	1	1	1	1				
180	1379273-AC		VIDEO OUT		1	1	1	1	1	1	1	1	1	1	1				
181	1379273-AD		CTL TRACK		1	1	1	1	1	1	1	1	1	1	1				
182	1379273-AE		AUX 1		1	1	1	1	1	1	1	1	1	1	1				
183	1379273-AF		AUX 2		1	1	1	1	1	1	1	1	1	1	1				
184	1379273-AG		EXT SYNC		1	1	1	1	1	1	1	1	1	1	1				
185	1379273-AH		DRUM ERROR		1	1	1	1	1	1	1	1	1	1	1				
186	1379273-AJ		AST ERROR		1	1	1	1	1	1	1	1	1	1	1				
187	1379273-AK		AUX 3		-	1	1	1	1	-	-	-	-	-	-				
188	1379273-AL		RF ENV		1	1	1	1	1	1	1	1	1	1	1				
189	1379273-AM	↓	DROP OUT		1	1	1	1	1	1	1	1	1	1	1				
190	1379273-AN	LENS, PUSHBUTTON, VIDEO			1	1	1	1	1	1	1	1	1	1	1				
191	1379273-AP	LENS, PUSHBUTTON, SCNR ERROR			1	1	1	1	1	1	1	1	1	1	1				
192	471-069	SCREW, MACH, PAN HD, XREC, 6-32 X .375			4	4	4	4	4	4	4	4	4	4	4				
193	471-068	SCREW, MACH, PAN HD, XREC, 6-32 X .312			3	3	3	3	3	3	3	3	3	3	3				
194	502-025	WASHER, INT. TOOTH, LOCK, #6			4	4	4	4	4	4	4	4	4	4	4				
195	501-009	WASHER, PLAIN, #6			3	3	3	3	3	3	3	3	3	3	3				
196	496-005	NUT, HEX, CAPTIVE WASHER			3	3	3	3	3	3	3	3	3	3	3				
197		WIRE, STRANDED, #24 AWG			A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R				
198	616-569	CABLE, COAX, 75 OHM			A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R				
199	615-004	WIRE, SOLID, TINNED #24 AWG			A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R				
200	600-232	SLEEVING, TEFLON			A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R	A/R				
201	471-329	SCREW, MACH, FLAT HD, XREC X .438 LG, #4			1	1	1	1	1	1	1	1	1	1	1				
202	501-008	WASHER PLAIN #4			1	1	1	1	1	1	1	1	1	1	1				
203	493-005	NUT LOCKING HEX			1	1	1	1	1	1	1	1	1	1	1				
204	267-008	PAPER, INSULATING (FISH PAPER)			A/R							A/R	A/R	A/R	A/R				
205	062-837	RESISTOR, FIXED, M.F., 76.8Ω, ±1%, 1/8W R170,201			2	-	-	-	2	2	2	2	2	2	2				
206	066-718	RESISTOR, FIXED, C.F., 5.6K, 1/4W, 5% R19,64,66,68,70,72,207,287			8					8	8	8	8	8	8				
207	066-827	RESISTOR, FIXED, C.F., 3.9K, 1/4W, 5% R65,67,69,71,73,288			6					6	6	6	6	6	6				
208	058-452	RESISTOR, VARIABLE, 200Ω, 1/2W R169,200			2	-	-	-	2	2	2	2	2	2	2				
209	066-665	RESISTOR, FIXED, C.F., 1K, 1/4W, 5% R2,4,6,28,29,33,41,44,53,83,84,94,118,124,126,130,142,145,152,165,168,175,182,196,199,204,223,226,233,255,258,261,229,227,285,289			-					36	36	-	-	-	-				
210																			
211																			
212	066-830	RESISTOR, FIXED, C.F., 10K, 1/4W, 5% R1,3,5,48,49,52,55,59,60,75,77,78,86-90,103,132,134-136,157-159,189-191,206,208,216-218,235,236,238,243,245-247,286,290			42					42	42	42	42	42	42				
213	066-665	RESISTOR, FIXED, C.F., 1K, 1/4W, 5% R2,4,6,28,29,33,41,44,53,83,84,94,118,124,126,130,142,145,152,165,168,175,182,196,199,204,223,226,233,255,258,261,229,227,285,289			37							37	37	37	37				
		PRESTRESSING I.C.																	
		STATIC SENSITIVE SPECIAL HANDLING REQ'D																	

MONITOR SELECT
 ASSY NO. 1400891 -
 SCHEMATIC NO. 1400893
 A/W ISSUE M E7



Assembly No. 1400891-11Z. Monitor Select PWA



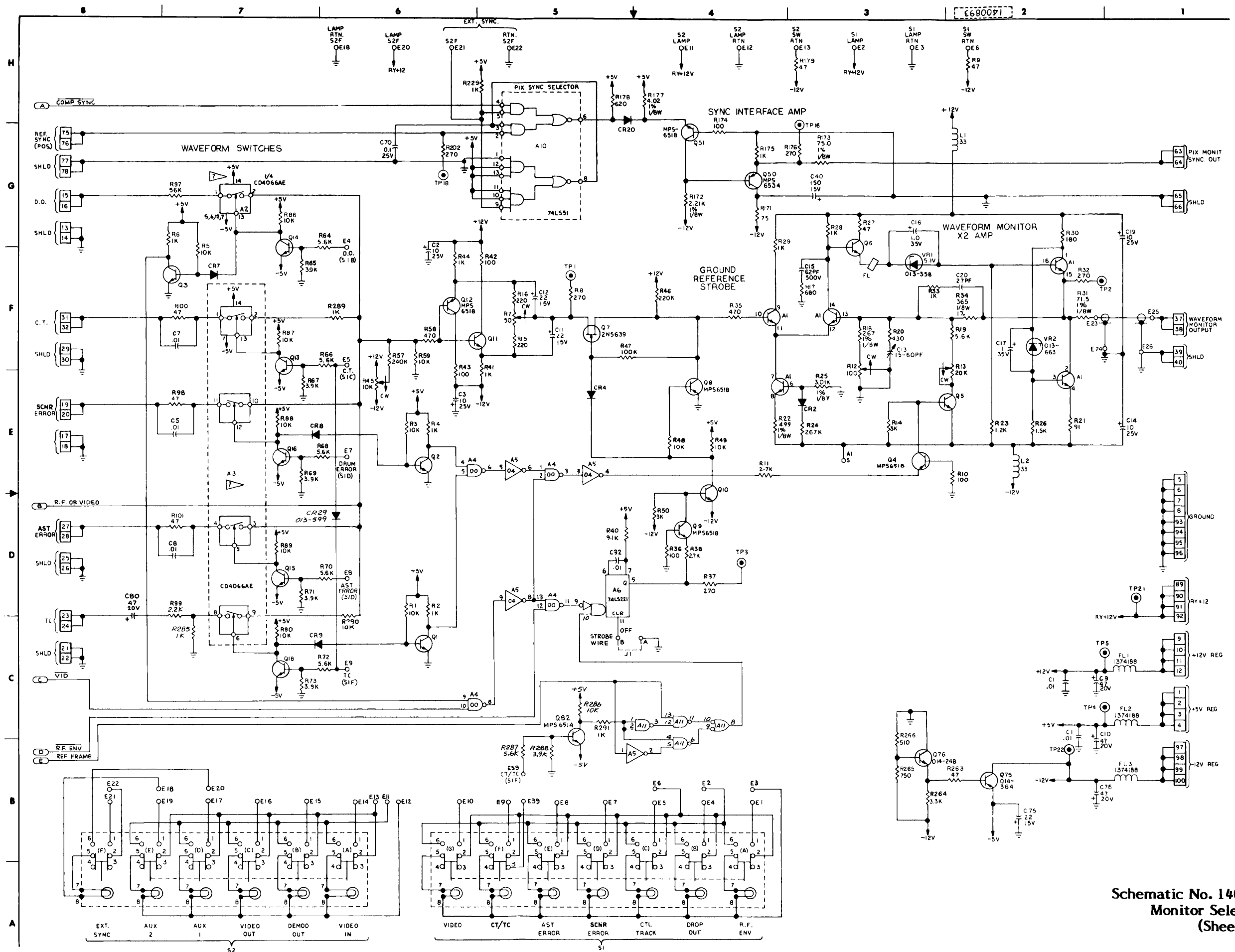
NOTES:
 1. RESISTORS ARE IN OHMS, 1/4W, 5%
 2. CAPACITORS ARE IN MICROFARADS, 50V, 20%
 3. INDUCTORS ARE IN MICROHENRIES, 5%
 4. DIODES ARE PN 013-689
 5. TRANSISTORS ARE P/N 014-780 (MPS 6514)
 6. SCHEMATIC REFLECTS PWA 1400891-11.
 7. SUSCEPTIBLE TO STATIC DAMAGE, SPECIAL HANDLING REQUIRED PER MF-1.

REF. DES.	A1,7	A2,3	A8	A4,11	A10	A6	A5	A9
AMPEX P/N	590-599	590-618	590-605	589-815	590-576	589-394	589-314	590-534
VENDOR P/N	CA30B3	CD4066	LM311N	74LS00	74LS51N	74LS22	74LS04N	747
VOLTAGE PIN	(+5V) 14	(+12V) 8	(+5V) 14	(+5V) 14	(+5V) 16	(+5V) 14	(+12V) 9,13	(+12V) 4
GROUND PIN		(-12V) 7	(-12V) 4					

REFERENCE DES.	LAST USED	NOT USED
A11		
C80		
C89		
C93		
L19		
Q82		
R29		

FIELD SERVICE COMP	AMPEX P/N	EQUIVALENT
013-358		1N751A
013-663		1N97B
013-678		1N4009
013-689		1N914
013-819		WD41190
014-248		2N2222
014-364		2N2905
014-406		MPS6434
014-453		2N5639
014-780		MPS6914
014-781		MPS6918

Schematic No. 1400893M.
 Monitor Select PWA
 (Sheet 1 of 2)



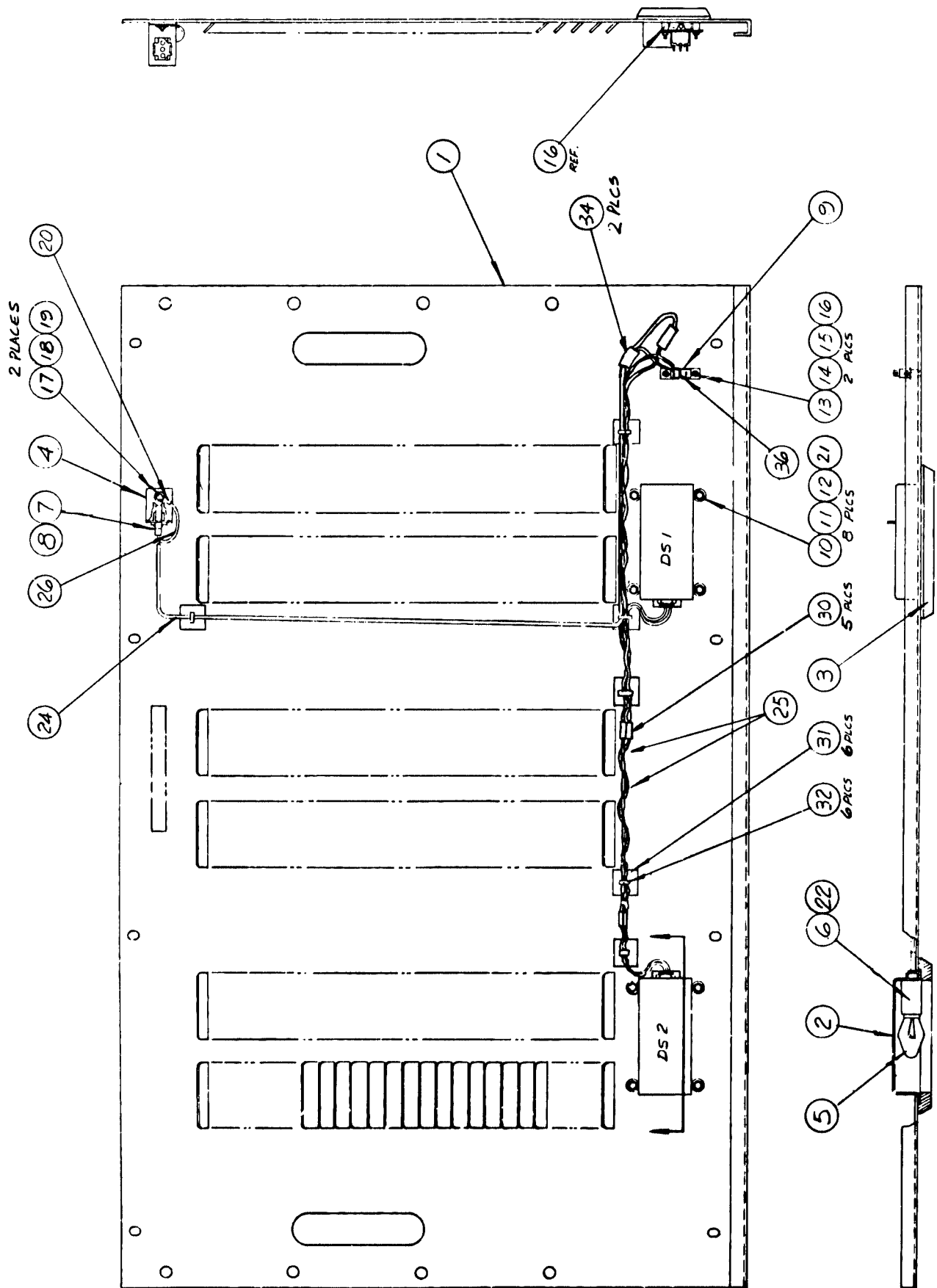
Schematic No. 1400893M.
Monitor Select PWA
(Sheet 2 of 2)

1400894-01

MONITOR BRIDGE BOTTOM PANEL ASSEMBLY
NEXT HIGHER ASSEMBLY 1400890

REV. B

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01											
1	1379150-02	PANEL, BOTTOM, MONITOR BRIDGE	1												
2	1400895-01	REFLECTOR, SHIELD, ILLUMINATION LAMP	2												
3	1400896-02	BEZEL, ILLUMINATION LAMP	2												
4	1400867-01	BRACKET, LAMP CONNECTOR MTG	1												
5	060-552	LAMP, CANDELABRA SCREW, 120V, 7 WATT.	2												
6	132-405	LIGHTHOLDER, TREADED BUSHING, CANDELABRA SCREW	2												
7	167-451	CONNECTOR PART, BODY, RECPT, 3 POSITION	1												
8	166-200	CONNECTOR PART, CONTACT, PIN, 22-20 AWG	3												
9	119-230	SWITCH, ROCKER, SPDT	1												
10	470-422	SCREW, 6-32, BUTTON HD, HEX. SOC. .625 LG BLK	8												
11	501-188	WASHER, #6, PLAIN, .267 OD	8												
12	492-034	NUT, 6-32, HEX, SM PATTERN	8												
13	472-471	SCREW, 2-56, FLT HD, 82° .438 LG	2												
14	501-184	WASHER, #2, PLAIN, .149 OD	2												
15	493-168	NUT, 2-56, HEX, NYLON THD LOCK	2												
16	280-166	SPACER, UNTHREADED PLAIN, #2, .188 OD, .25 LG	2												
17	471-327	SCREW, 4-40, FLAT HD, 82° .312 LG	2												
18	501-008	WASHER, #4, PLAIN,	2												
19	493-005	NUT, 4-40, HEX, NYLON THD LOCK	2												
20	171-057	TERMINAL LUG, CRIMP, RING TONGUE, 6 STUD 22-20AWG	1												
21	502-003	WASHER, #6 HELICAL LOCK	8												
22	502-363	WASHER, LOCK, INTERNAL TOOTH .410 I.D.	2												
23															
24	616-283	CABLE, SHIELDED, 2 COND, RED/BLK 22 AWG	A/R												
25		WIRE, STRANDED 20 AWG	A/R												
26		WIRE, STRANDED 22 AWG	A/R												
27															
28															
29															
30	171-070	TERMINAL, SPLICE, 22-16 AWG, INSULATED	5												
31	302-565	STRAP ACCESSORIES, MTC PLATE, .750SQX.160D LG	6												
32	302-335	STRAP, CABLE, NYLON	6												
33															
34															
35	600-036	SLEEVING, TEFLON, FLEXIBLE .035 ID	A/R												
36		SLEEVING POLYLEFIN, SHRINKABLE, CLEAR	A/R												
37															



Assembly No. 1400894-01B. Monitor Bridge Bottom Panel Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				03	04	05	06						
1													
2	1400898	WIRING DIAGRAM MONITOR BRIDGE			C	D	E	E					
3	140-092	CONNECTOR, BNC, PLUG		12	13	13	13	13					
4													
5	140-093	CONNECTOR, BNC, JACK	A14, J9, 10	2	2	2	2	2					
6													
7	145-675	CONNECTOR, 100 POS, PC	A4 XA1	1	1			1					
8													
9	166-199	CONTACT, SOCKET, 20-22 AWG		A/R	A/R	A/R	A/R	A/R					
10	166-200	CONTACT, PIN, 20-22 AWG		A/R	A/R	A/R	A/R	A/R					
11	166-226	CONTACT, PIN 24-26 AWG		A/R	A/R	A/R	A/R	A/R					
12	166-227	CONTACT, PIN, 16-18 AWG		A/R	A/R	A/R	A/R	A/R					
13	166-856	CONNECTOR, PLUG, 42 POS	A5, P9	1	1	1	1	1					
14	167-450	CONNECTOR, PLUG, 3 POS	A15, P7	1	1	-	-	-					
15	171-009	TERMINAL QUICK DISCONNECT			2	2	2	2					
16	302-335	STRAP, CABLE, NYLON		A/R	A/R	A/R	A/R	A/R					
17													
18	501-894	WASHER, NYLON, .750 O.D., .515 I.D.,	REF: ITEM 5	2	2	2	2	2					
19	502-436	WASHER, SHOULDER	REF: ITEM 5	2	2	2	2	2					
20													
21	545-183	CONNECTOR, TEST EQUIP PART, 9 PIN	A2, P370	1	1			1					
22	545-184	COVER, TEST EQUIPMENT PART	REF: A2, P310	1	1			1					
23													
24	616-569	CABLE, COAX, 75 OHMS, MINI.		A/R	A/R	A/R	A/R	A/R					
25		CABLE, 1 COND. SHIELDED		A/R	A/R	A/R	A/R	A/R					
26		SLEEVING, PVC SHRINK		A/R	A/R	A/R	A/R	A/R					
27		WIRE STRANDED, 24 AWG		A/R	A/R	A/R	A/R	A/R					
28		WIRE, STRANDED, 20 AWG		A/R	A/R								
29	616-283	CABLE, SHIELDED, 2 COND 22				A/R	A/R	A/R					
30													
31	167-450	CONNECTOR, PLUG, 3 POS	A17, P1 A15, P7			2	2	2					
32	167-022	CONNECTOR, PLUG, 6 POS	A15, P10			1	1	1					

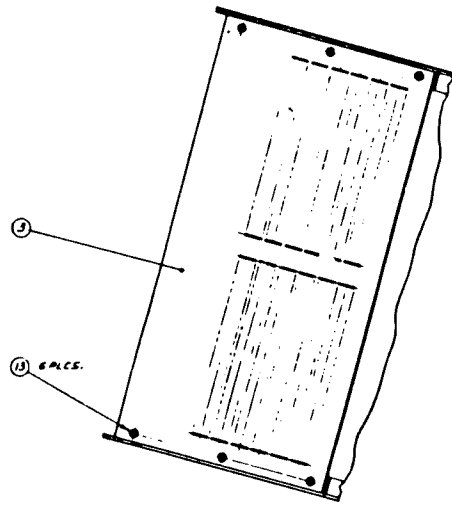
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1400570-01

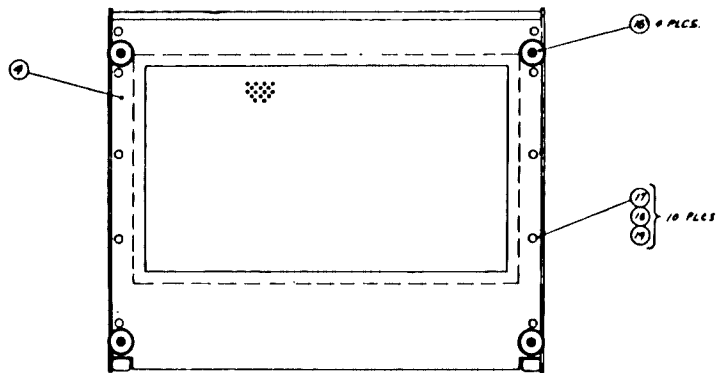
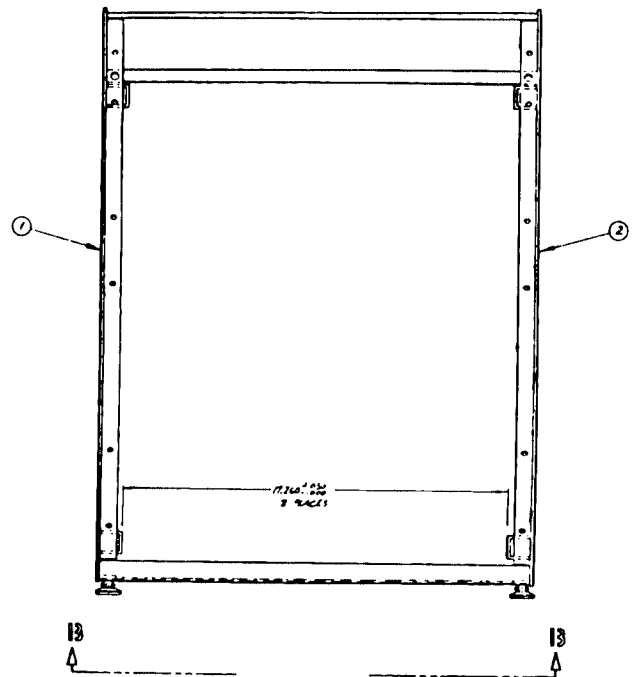
TABLE TOP CASE KIT
NEXT HIGHER ASSEMBLY 1400000

REV. H

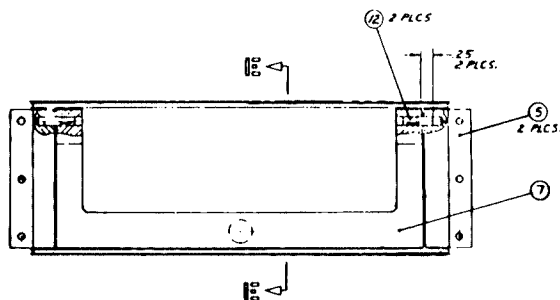
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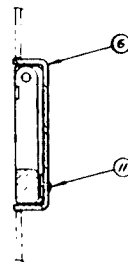
VIEW C-C



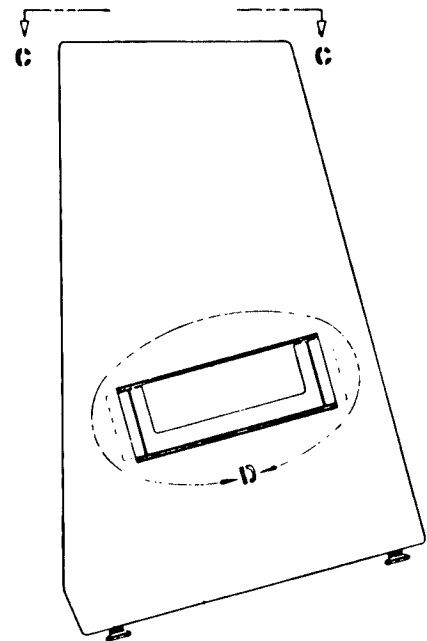
VIEW 13-13



DETAIL 13
BOTH SIDES
SCALE 1/1



SECTION 11-11



Assembly No. 1400570-01H. Table Top Case Kit

REV. C

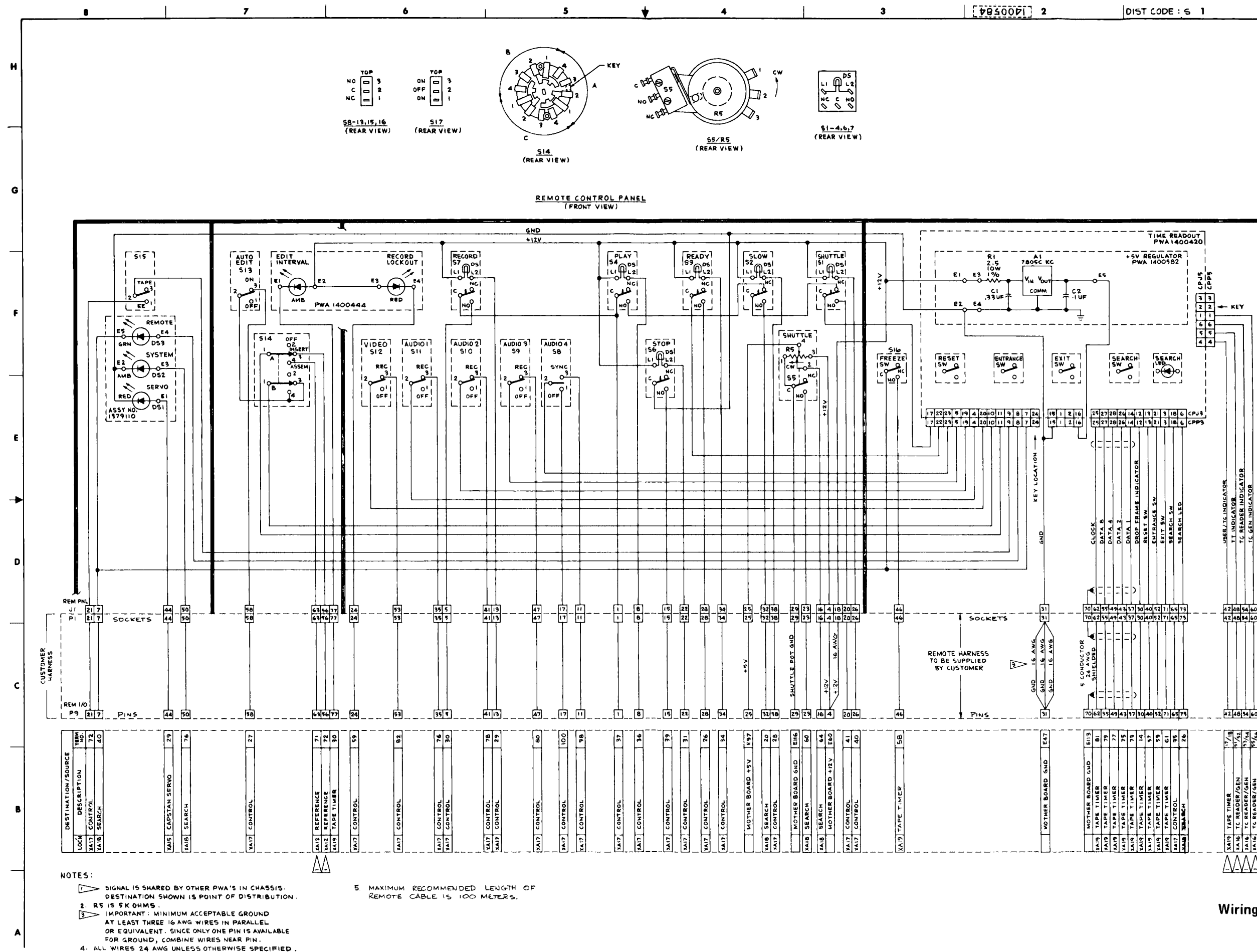
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REV. C

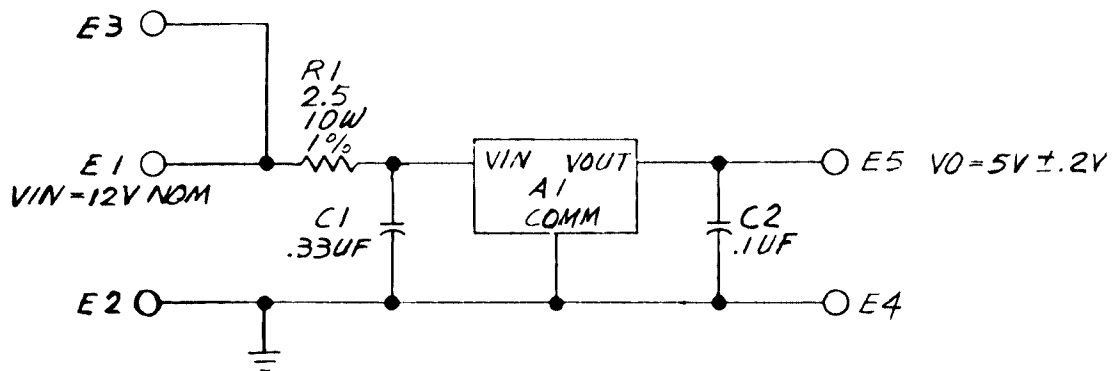
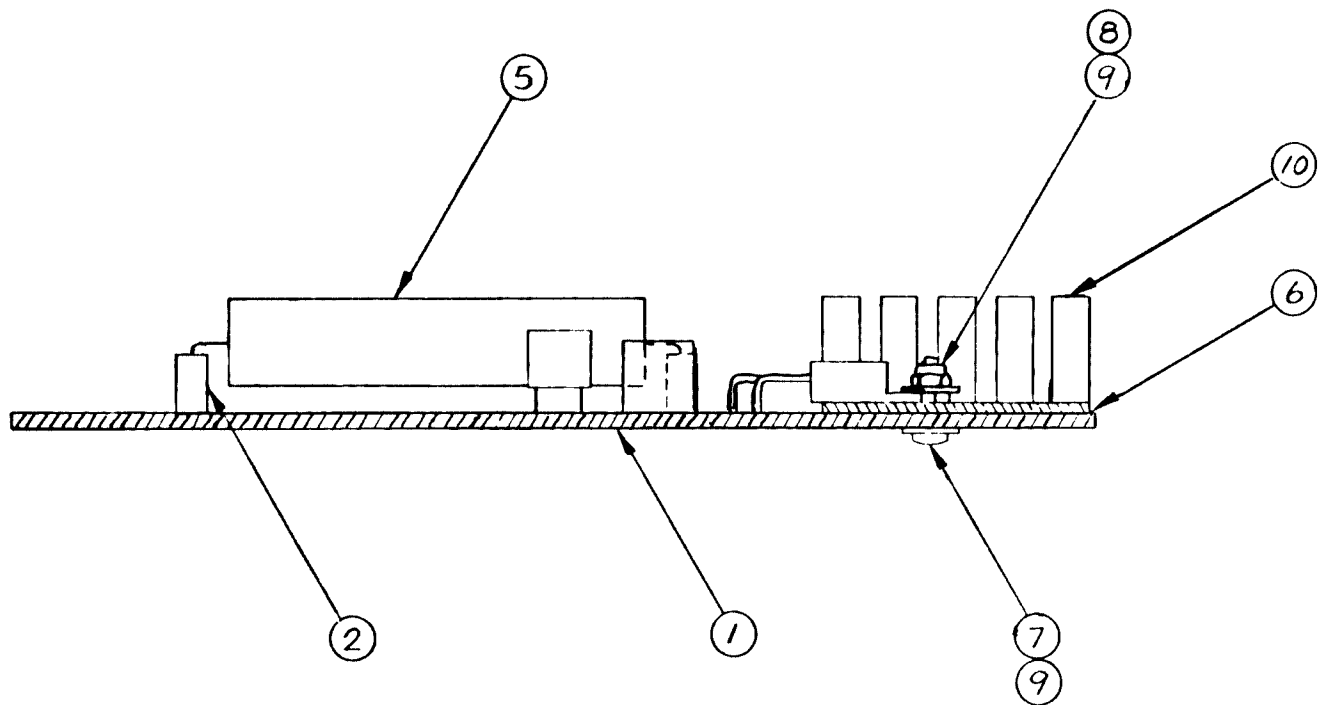
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REV. A

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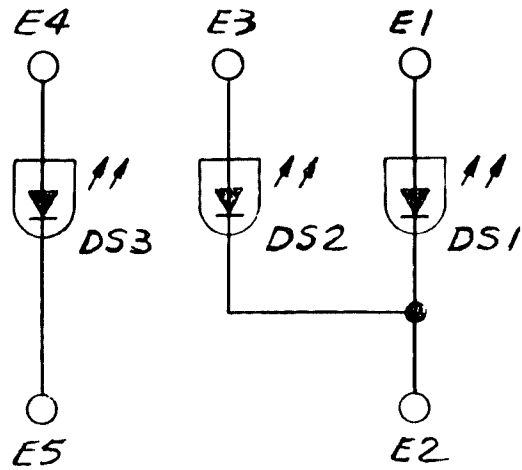


ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				01											
1	1400887-01	PANEL, REMOTE CONTROL		1											
2	1400582-01	PWA, +5V REGULATOR		1											
3	1400584	WIRING DIAGRAM		E											
4	1400585-01	BRACKET, CONNECTOR		1											
5	1400888	HARNESS		REF											
6															
7															
8	1378583-01	SWITCH, ROTARY, 3P3P	S14	1											
9	1378596-01	PLATE, DRESS, SWITCH	S8-12,13,15	7											
10	1379424-01	SWITCH ASSEMBLY, POTENTIOMETER	R5,S5	1											
11	1379110-01	PWA, REMOTE LEDS		1											
12	1379282-01	BRACKET, TOGGLE SWITCH	REF: S13	1											
13	1379351-01	BRACKET, PUSHBUTTON	REF: S16	1											
14	1400454-02	FILTER, READOUT		1											
15	1400420-05	PWA, TIME READOUT		1											
16															
17															
18															
19	1400440-AA	LENS, PUSHBUTTON, REC	REF: S7	1											
20	1400440-AB	LENS, PUSHBUTTON, PLAY	REF: S4	1											
21	1400440-AC	LENS, PUSHBUTTON, SLOW	REF: S2	1											
22	1400440-AD	LENS, PUSHBUTTON, SHTL.	REF: S1	1											
23	1400440-AE	LENS, PUSHBUTTON, READY	REF: S3	1											
24	1400440-AF	LENS, PUSHBUTTON, STOP	REF: S6	1											
25	1400441-02	PLATE, 5 SWITCH MOUNTING	REF: S8-12	1											
26	1400444-01	PWA, INTERVAL/REC LOCKOUT LED		1											
27	1402460-01	PLATE, SW. MOUNTING	REF: S15	1											
28	6000002-20	KNOB, SKIRTED, BLACK	REF: S14	1											
29	6000009-20	KNOB, SKIRTED, BLACK	REF: R5	1											
30	6000035-01	LABEL, SERIALIZED		1											
31															
32	060-407	LAMP, INCANDESCENT, 14V	S1-4,6,7	6											
33	119-395	SWITCH, PADDLE SPDT	S9-12,13,15	6											
34	119-587	SWITCH, PUSHBUTTON	S1-4,7	5											
35	119-588	SWITCH, PUSHBUTTON	S6	1											
36	119-596	SWITCH, PADDLE SPDT	S8	1											
37															

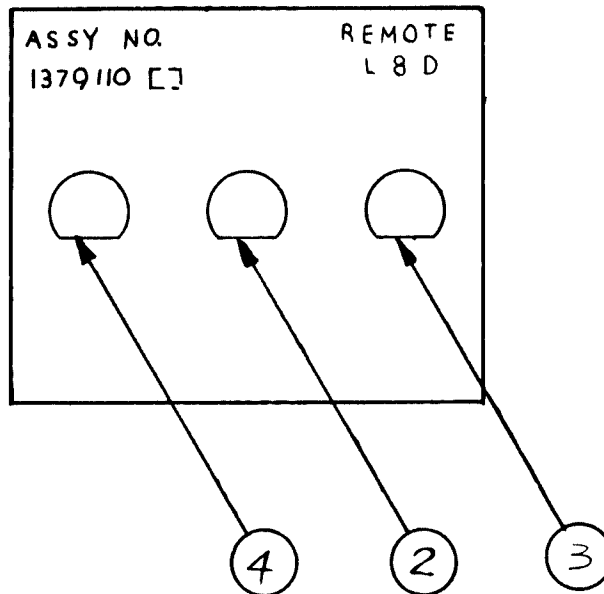


1	11	587-438	INTEGRATED CIRCUIT 7805 UC	A1
1	10	580-764	HEATSINK	REF: A1
2	9	501-155	WASHER, PLAIN #2	
1	8	493-168	NUT, HEX NYLON LOCK	
1	7	472-453	SCREW, MACH, PAN HD 2-56X.312LG	
1/R	6	087-388	COMPOUND, HEATSINK	REF: A1
1	5	6-9-560	RESISTOR, FIXED, WIREWOUND, POWER 2.5, 10W	R1
1	4	064-133	CAPACITOR, CER, MONO., .33UF	C1
1	3	030-963	CAPACITOR, CER, MONO., .1UF	C2
1	2	103307-01	STANDOFF	REF: R1
-01	ITEM NO.	PART NUMBER	DESCRIPTION	

Assembly No. 1400582-01B. +5 Volt Regulator PWA, w/Schematic



SCHEMATIC



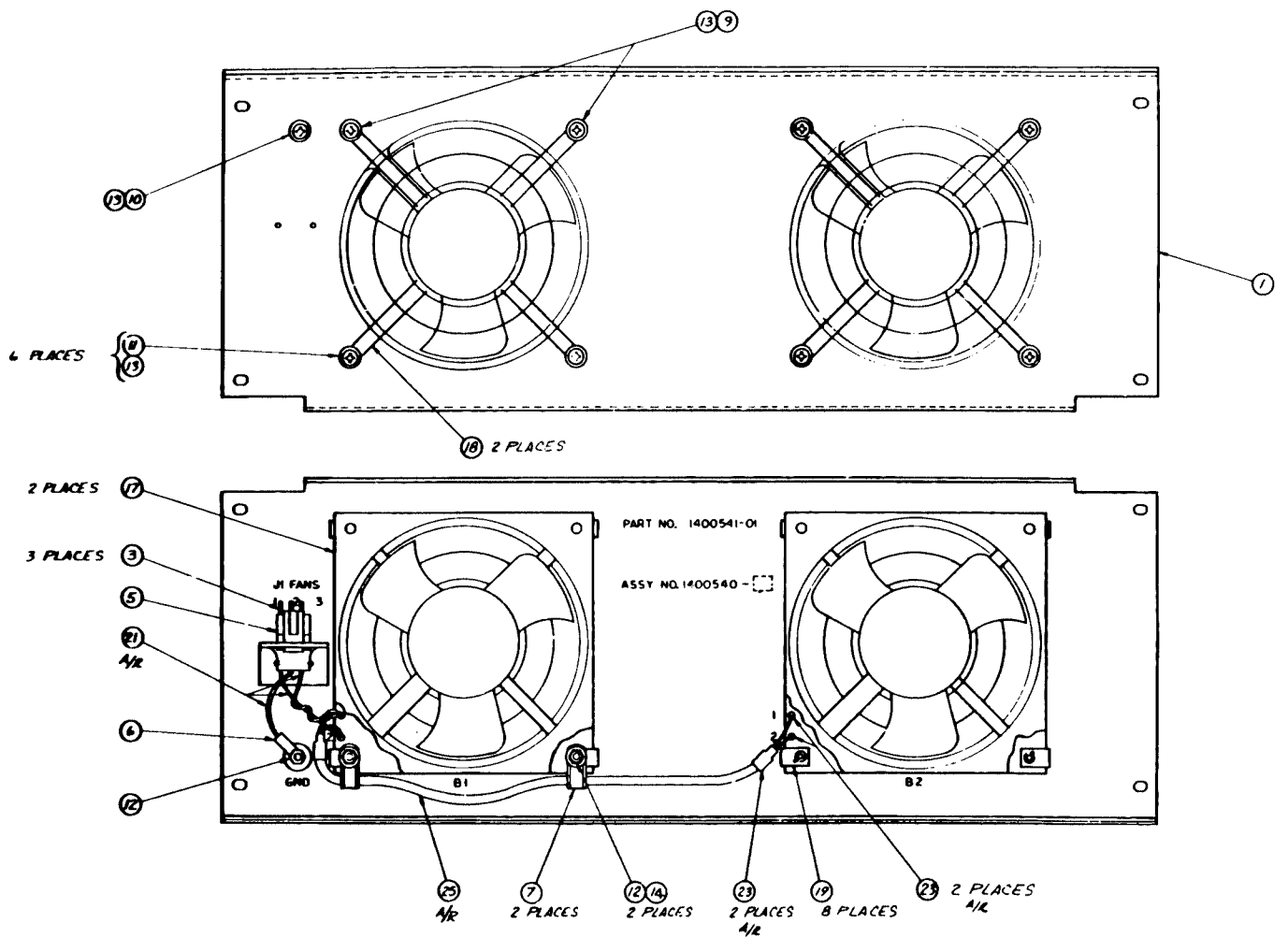
1	4	581-517	LED, GREEN	(HP 5082-4955)	DS3
1	3	581-476	LED, RED	(HP 5082-4535)	DS1
1	2	581-475	LED, YELLOW	(HP 5082-4635)	DS2

Assembly No. 1379110-01C. Remote LED PWA

FAN ASSEMBLY
NEXT HIGHER ASSEMBLY 1400409

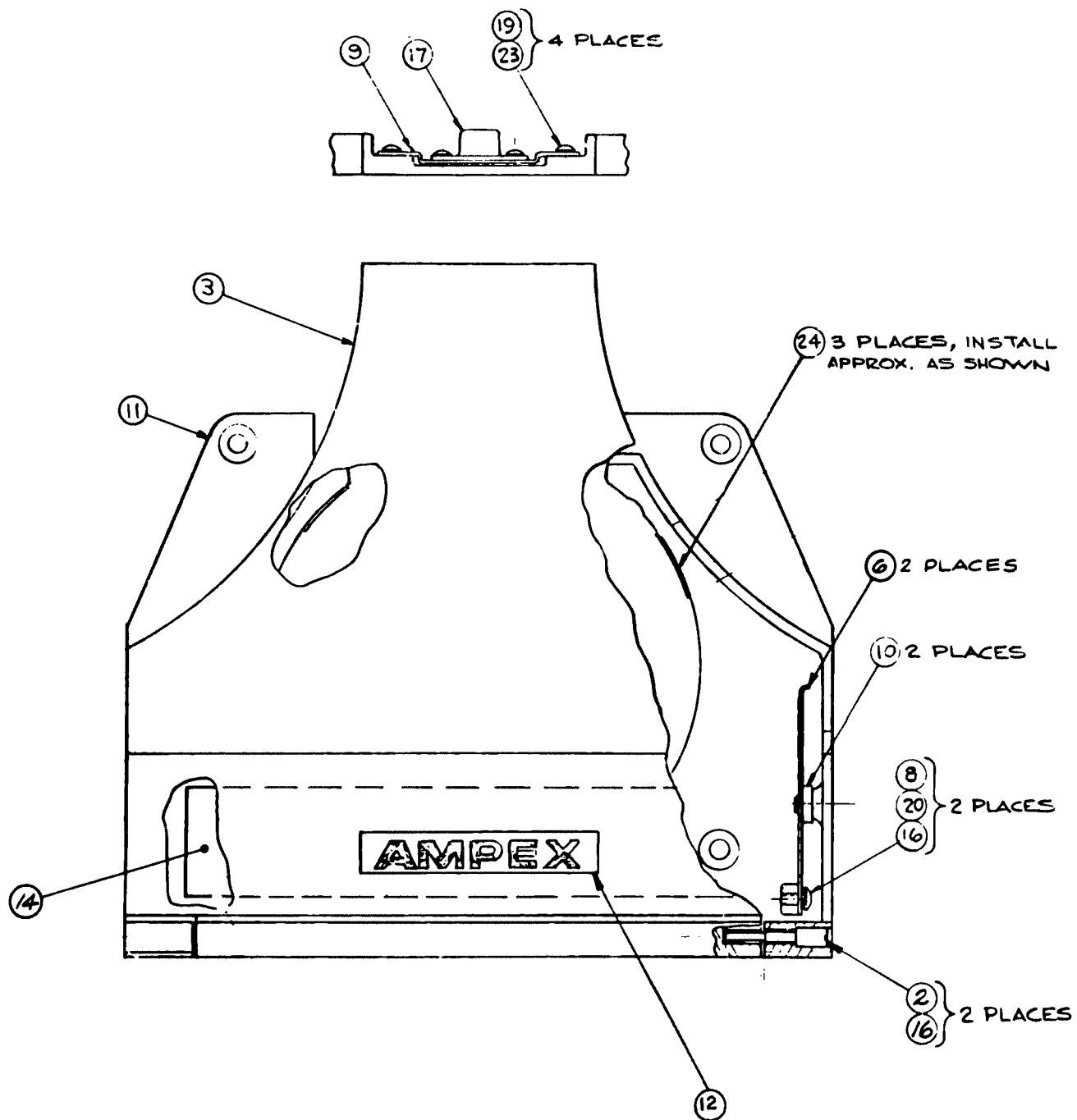
REV. F

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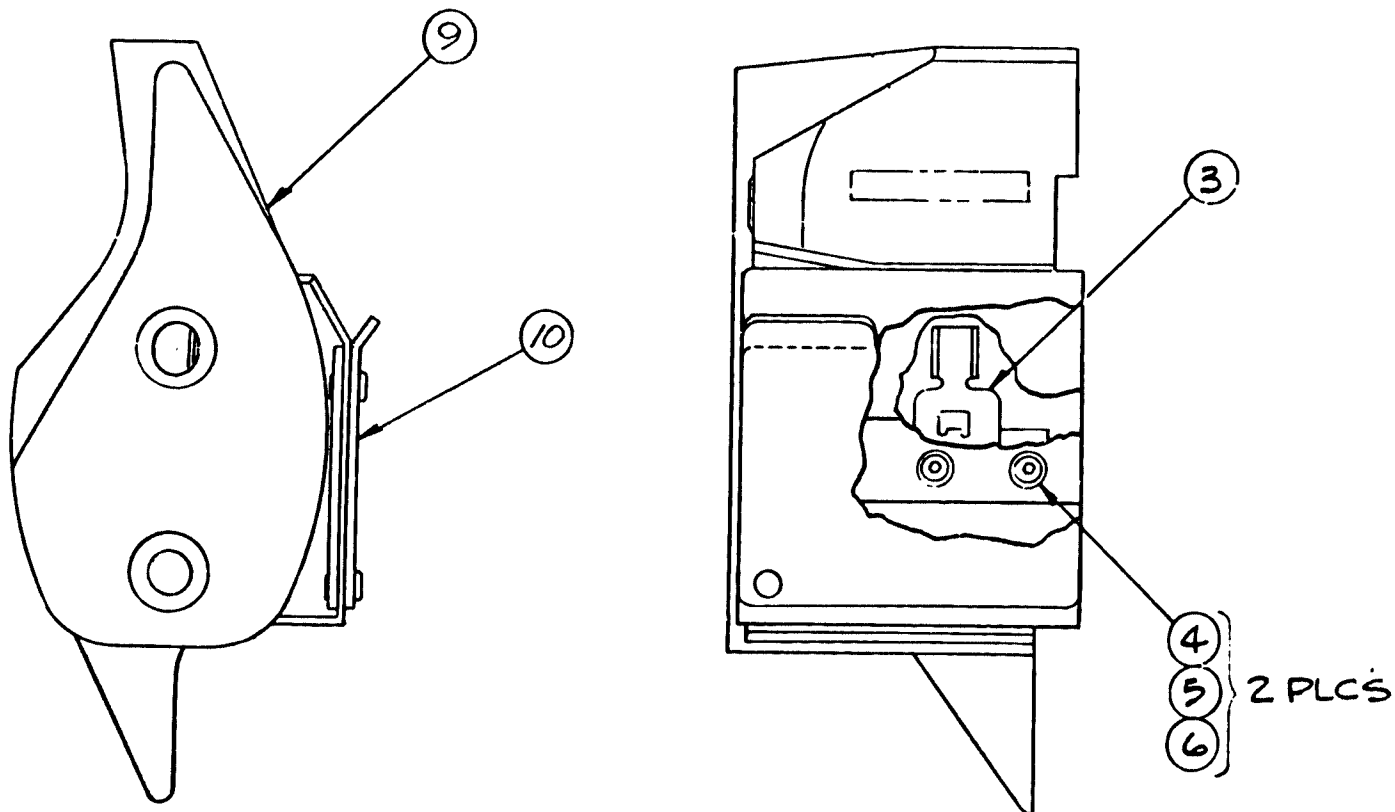


Assembly No. 1400540-02F. Fan Assembly

ITEM NO.	PART NUMBER	D	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
					-01											
1																
2	1401403-01		PIVOT PIN, SHROUD		2											
3	1401392-01		COVER, LOWER		1											
4																
5																
6	1379195-G1		LINK, COVER		2											
7																
8	1379210-01		BUSHING, HINGE		2											
9	1379211-01		PLATE, LATCH MOUNTING		1											
10	1379219-01		WASHER, STOP		2											
11	1401391-02		SHROUD		1											
12	6000054-03		PLATE, TRADEMARK		1											
13																
14	1400866-01		LABEL, HEAD HOUR		1											
15																
16	018-458		ADHESIVE, LOCTITE 222		A/R											
17	310-873		LATCH ASSEMBLY		1											
18																
19	470-470		SCREW, BUTTON HD, HEX SOC, BLK, 4-40 X .19 LG		4											
20	472-482		SCREW, BUTTON HD, HEX SOC, BLK, 6-32 X .25 LG		2											
21																
22																
23	501-850		WASHER, PLAIN, #4, C.S. BLACK OXIDE		4											
24	751-348		TAPE, ADHESIVE, SINGLE SIDED FOAM, NEOPRENE, .25WD X.06THK		A/R											
25																
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Assembly No. 1401390-01A. Scanner Shroud Assembly




1					10	1379485-01	SHIELD, AUDIO ASSY.
1					9	1400533-02	COVER, AUDIO ASSY.
-	1	1			8	1379485-03	SHIELD, AUDIO ASSY
-	-	1			7	1379485-02	SHIELD, AUDIO ASSY
A/R	A/R	A/R	A/R		6	018-458	LOCTITE, 222
2	2	2	2		5	501-169	WASHER, FLAIN, NO. 4
2	2	2	2		4	470-470	SCREW, BTN HD, HEX SOC, BLK, 4-40x.19LG
1	1	1	1		3	1379216-01	CLIP, LATCH
-	-	-	1		2	1379485-01	SHIELD, AUDIO ASSY
-	1	1	1		1	1400526-01	COVER, AUDIO ASSY
04	03	02	01	ITEM NO.	PART NUMBER	DESCRIPTION	

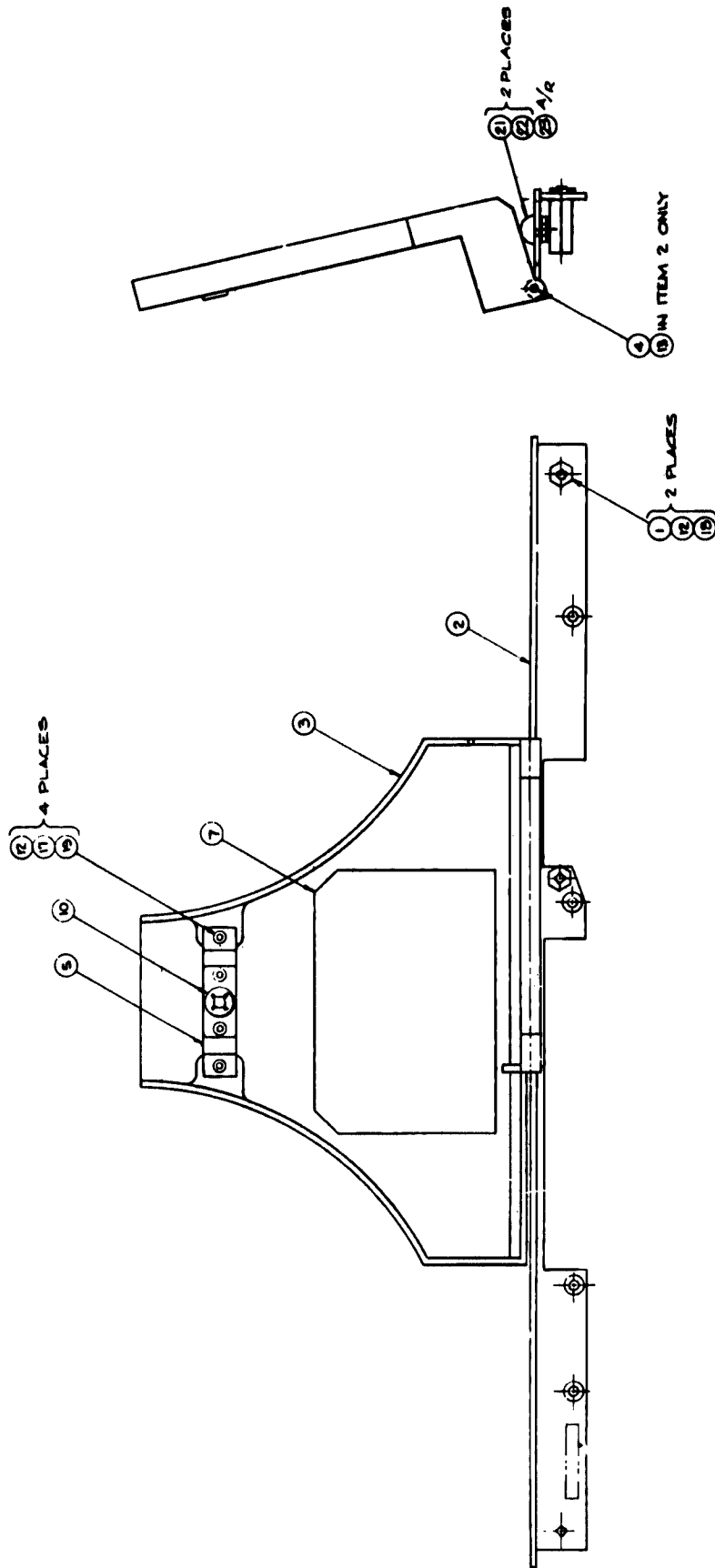
Assembly No. 1400525F-04F. Audio Shield and Cover Assembly

1401393-01

UPPER COVER ASSEMBLY
NEXT HIGHER ASSEMBLY 1400625

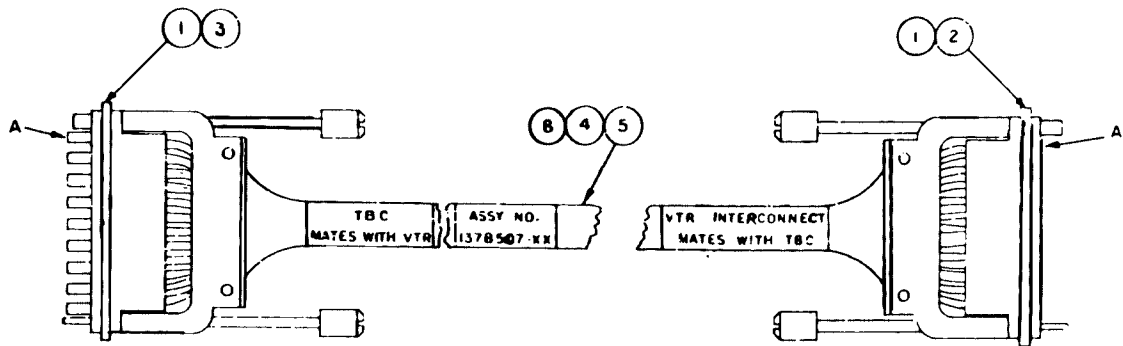
REV. A

ITEM NO.	PART NUMBER	D	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
					-01											
1	1378684-AB		SPACER		2											
2	1400527-01		HINGE BASE, UPPER COVER		1											
3	1401394-01		COVER, UPPER		1											
4	1379208-01		SHAFT, HINGE		1											
5	1379211-01		PLATE, LATCH MTG		1											
6																
7	1379245-02		LABEL, THREADING DIAGRAM		1											
8																
9																
10	310-873		LATCH ASSEMBLY		1											
11																
12	018-458		ADHESIVE, LOCTITE 222		A/R											
13	018-461		ADHESIVE, LOCTITE 242		A/R											
14																
15	260-237		BUMPER, GROMMET		-											
16																
17	470-470		SCREW, BUTTON HD, HEX SOC, BLK, 4-40 X .19		4											
18	492-010		NUT, PLAIN, HEX, 8-32 UNC-2B		2											
19	501-850		WASHER, PLAIN, #4, C.S. BLACK OXIDE		4											
20																
21	250-225		BUMPER, SCREW, RUBBER 6-32 X .250 LG		2											
22	496-005		NUT; HEX, LOCK 6-32 UNC-2B		2											
23	501-648		WASHER, PLAIN, NYLON #6		A/R											
24																
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Assembly No. 1401393-01A. Upper Cover Assembly

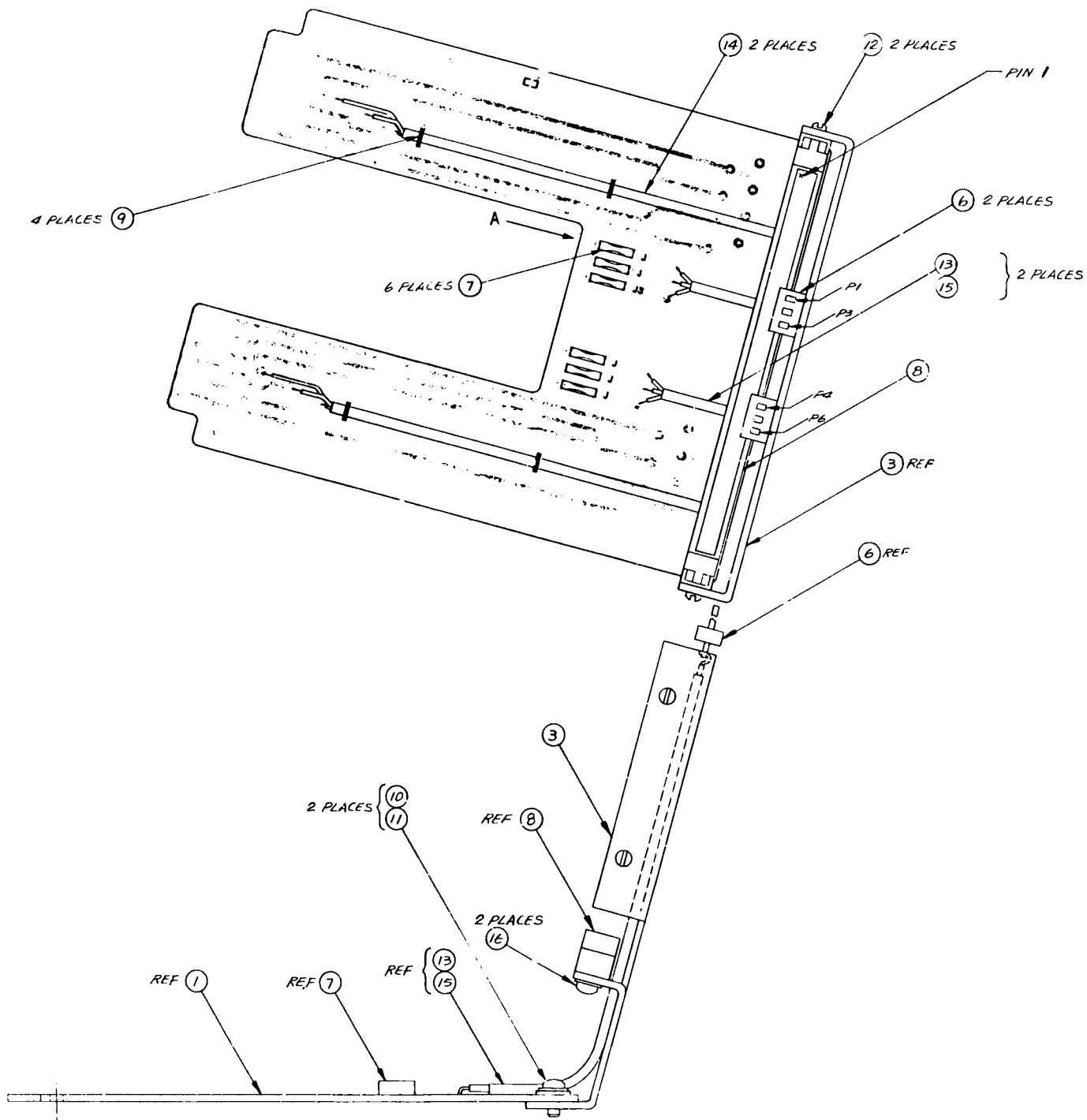
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER									
				-01	-02								
1	1378507-AA	INTERCONNECT CABLE, DTBC	1	1									
2	1401362-01	LITERATURE PACKAGE	-	1									
3	102-117	REEL, TAKE-UP, 10.50 DIAMETER - BOXED	1	1									
4	1400228-03	P.W.A., EXTENDER CARD	1	1									
5	1401302-01	LEG SET ASSEMBLY, SCANNER SERVICE	1	1									
6	1499015	INSTRUCTION MANUALS LIST, VPR-2	REF.	-									
7	060-407	LAMP, INCANDESCENT, 14V	10	10									
8	070-431	FUSE, CARTRIDGE, FAST BLOW, 15 AMP		5									
9	070-998	FUSE, CARTRIDGE, SLOW BLOW, 10A	5	-									
10	070-012	FUSE, CARTRIDGE, FAST BLOW, 1.5A	5	5									
11	070-409	FUSE, CARTRIDGE, 1/32A	5	5									
12	1499029-01	INSTRUCTION MANUALS LIST VPR-2B		REF									
13	169-571	CONTACT, PIN, 24-26 AWG		75									
14	169-585	CONTACT, PIN, 16-18 AWG		10									
15	166-226	CONTACT, PIN, 24-26 AWG	75	-									
16	166-227	CONTACT, PIN, 16-18 AWG	10	-									
17	166-324	CONNECTOR, PLUG, 4 POS. (AUTO EDIT)	1	1									
18	166-859	CONNECTOR, PLUG, 75 POS. (REMOTE)	1	1									
19	169-616	EXTRACTOR, PIN	1	1									
20	360-445	TOOL, HANDLE SNAP-LOCK	1	1									
21	360-446	TOOL, SCREWDRIVER, KEY, HEX., .094 AF	1	1									
22													
23	360-448	TOOL, SCREWDRIVER, KEY, HEX, BALL ENDED, .109 AF	1	1									
24	360-449	TOOL, SCREWDRIVER, KEY, HEX, BALL ENDED, .140 AF	1	1									
25													
26	602-044	PLUG, SHORTING	10	10									
27													
28													
29	167-681	TOOL, EXTRACTOR	1	1									
30													
31													
32													
33													
34													
35													
36													
37													



MATES WITH VTR	MATES WITH TBC	VTR INTERCONNECT
TBC	P	I
A	A	0
C	A	0
G	A	0
B	A	0
E	A	0
H	A	0
J	A	0
F	A	0
K	A	0
M	A	0
N	A	0
P	A	0
S	A	0
T	A	0
V	A	0
W	A	0
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BX	A	0
BY	A	0
BZ	A	0
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EF	A	0
EG	A	0
EH	A	0
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EJ	A	0
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TZ	A	0
UA	A	0
UB</		



ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER											
				0	-02										
1	1400228-03	PWA, EXTENDER CARD			1										
2	1401000-02	GAUGE, TP			-										
3	1498600-02	525 TYPE C AUDIO ALIGNMENT TAPE			1										
4	1400250-01	PWA, RECORD DRIVER EXTENDER			1										
5	1498604-02	525 TYPE C COLOR PERFORMANCE TAPE			1										
6															
7	060-407	LAMP, INCANDESCENT, 14V		10	10										
8	070-012	FUSE, CARTRIDGE, FAST BLOW, 1.5A		5	5										
9	070-409	FUSE, CARTRIDGE, FAST BLOW, .031A		5	5										
10	070-998	FUSE, CARTRIDGE, SLOW BLOW, 10A		5	5										
11	169-571	CONTACT, PINS 24 AWG		20	20										
12	167-681	TOOL, EXTRACTOR			1										
13	169-616	TOOL, EXTRACTOR			1										
14	360-029	SCREW DRIVER, FLAT XCELITE R-144			1										
15	360-049	SCREW DRIVER XCELITE R-5166			1										
16	360-053	SCREW DRIVER XCELITE X-102			1										
17	360-054	SCREW DRIVER XCELITE X-101			1										
18	360-419	SOLDER REMOVER SOLDAVAC SV-26			1										
19	360-420	SCREW DRIVER XCELITE X-103			1										
20	360-421	SCREW DRIVER SET XCELITE #PS-88			1										
21	360-422	ALLEN SCREWDRIVER SET XCELITE 99-PS-40			1										
22	360-423	NUT DRIVER SET XCELITE #PS-120			1										
23	360-445	TOOL, HANDLE SNAP-LOCK			1										
24	360-446	TOOL, SCREW DRIVER, KEY, HEX .094AF			1										
25	360-448	TOOL SCREW DRIVER, KEY, HEX, BALL ENDED .109AF			1										
26	360-449	TOOL SCREW DRIVER KEY, HEX, BALL ENDED .140AF			1										
27	602-044	PLUG, SHORTING		10	10										
28	800-790	CLIP IC		2	2										
29	360-476	TAPE TENSION GAUGE TENTEL T2-H20-MLD			1										
30															
31	1498608-02	GUIDE ADJUSTMENT TAPE, NTSC			1										
32	1408148-01	LOCATOR, BRUSH HOUSING			1										
33	1408197-01	BRUSH SEPARATOR, PLASTIC			1										

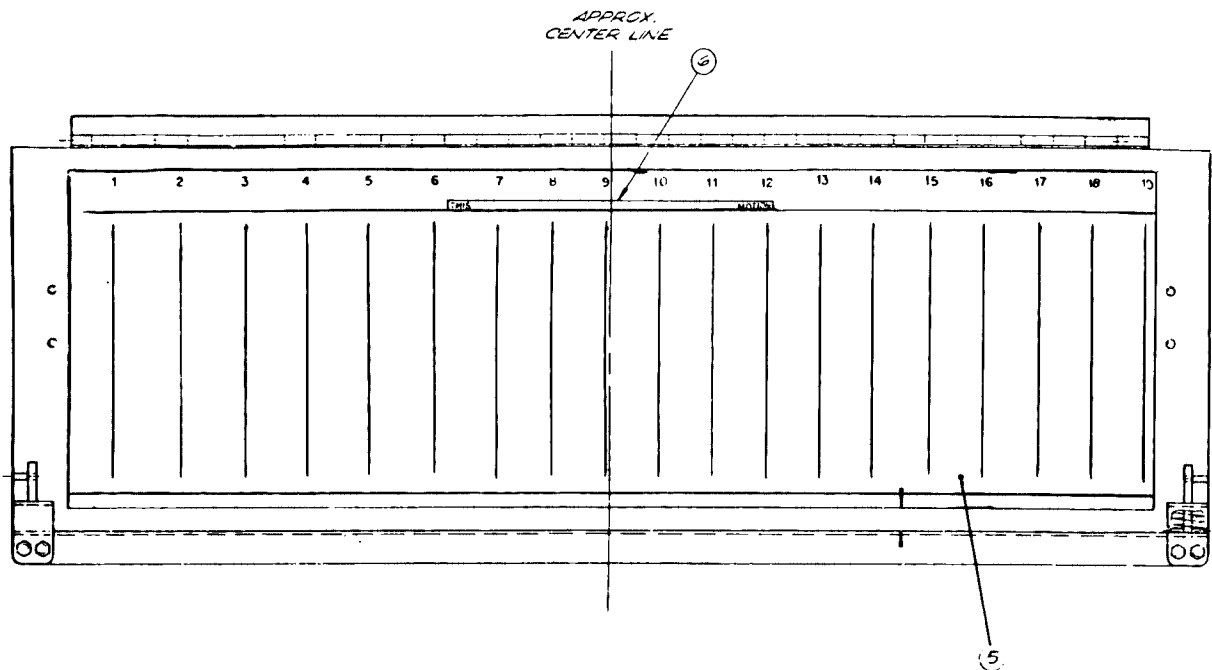
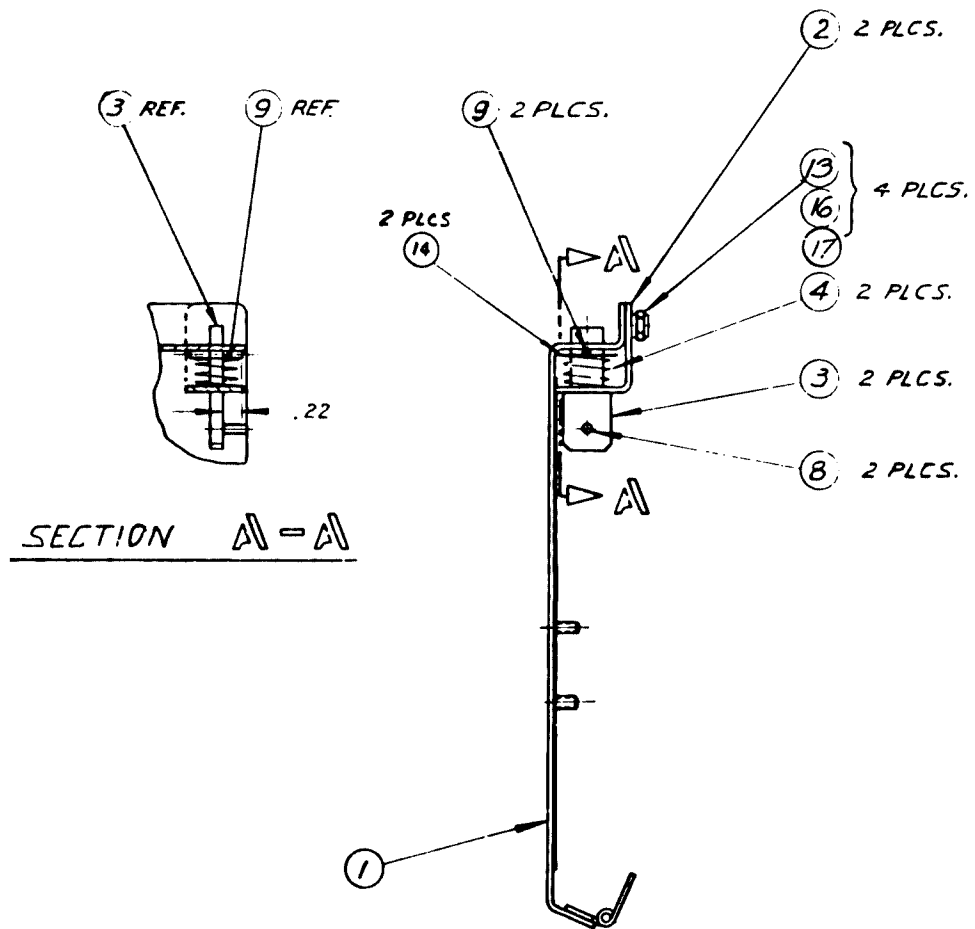


Assembly No. 1400250-01A. Record Driver Extender PWA

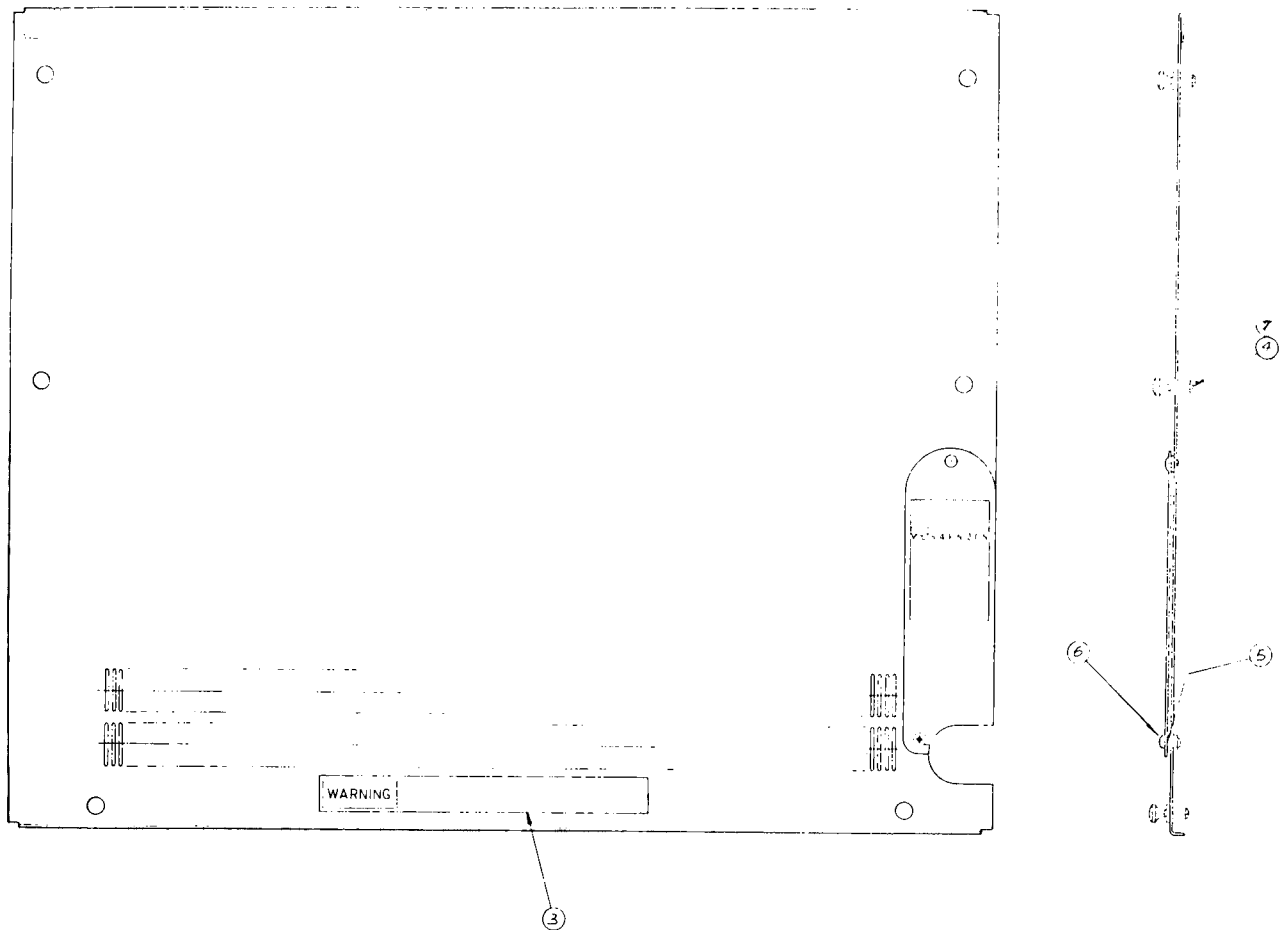
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				01	-02								
1	1400228-03	PWA, EXTENDER CARD		1	1								
2	1401000-02	GAUGE, TP		-	-								
3	1400250-01	PWA, RECORD DRIVER EXTENDER		1	1								
4	1498601-01	625 TYPE C AUDIO ALIGNMENT TAPE		1	1								
5													
6	1498605 -01	625 TYPE C COLOR PERFORMANCE TAPE		1	1								
7	060-407	LAMP, INCANDESCENT, 14V	10	10									
8	070-012	FUSE, CARTRIDGE, FAST BLOW, 1.5A	5	5									
9	070-409	FUSE, CARTRIDGE, FAST BLOW, .031A	5	5									
10	070-998	FUSE, CARTRIDGE, SLOW BLOW, 10A	5	5									
11	169-571	CONTACT, PINS 24 AWG	20	20									
12	167-681	TOOL, EXTRACTOR		1									
13	169-616	TOOL, EXTRACTOR		1									
14	360-029	SCREW DRIVER, FLAT XCELITE R-144		1									
15	360-049	SCREW DRIVER XCELITE R-5166		1									
16	360-053	SCREW DRIVER XCELITE X-102		1									
17	360-054	SCREW DRIVER XCELITE X-101		1									
18	360-419	SOLDER REMOVER SOLDACVAC SV-26		1									
19	360-420	SCREW DRIVER XCELITE X-103		1									
20	360-421	SCREW DRIVER SET XCELITE #PS-88		1									
21	360-422	ALLEN SCREWDRIVER SET XCELITE 99-PS-40		1									
22	360-423	NUT DRIVER SET XCELITE #PS-120		1									
23	360-445	TOOL HANDLE SNAP-LOCK		1									
24	360-446	TOOL, SCREW DRIVER, KEY, HEX .094AF		1									
25	360-448	TOOL, SCREW DRIVER, KEY, HEX, BALL ENDED .109AF		1									
26	360-449	TOOL, SCREW DRIVER, KEY, HEX, BALL ENDED .140AF		1									
27	602-044	PLUG, SHORTING	10	10									
28	800-790	CLIP IC	2	2									
29	360-476	TAPE TENSION GAUGE TENTEI T2-M20-MLB	1	1									
30													
31	1498614-01	BIAS CT REF LEVEL TAPE		1									
32	1498609-01	GUIDE ADJUSTMENT TAPE PAL		1									
33	1408148-01	LOCATOR, BRUSH HOUSING		1									
34	1408127-01	BRUSH SEPARATOR, PLASTIC		1									

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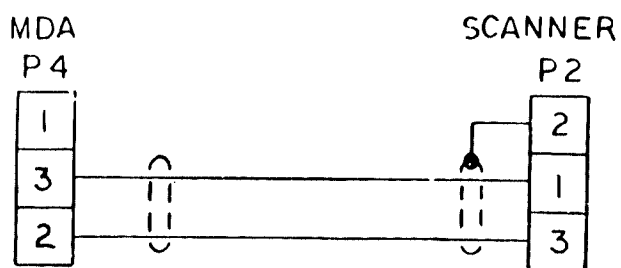
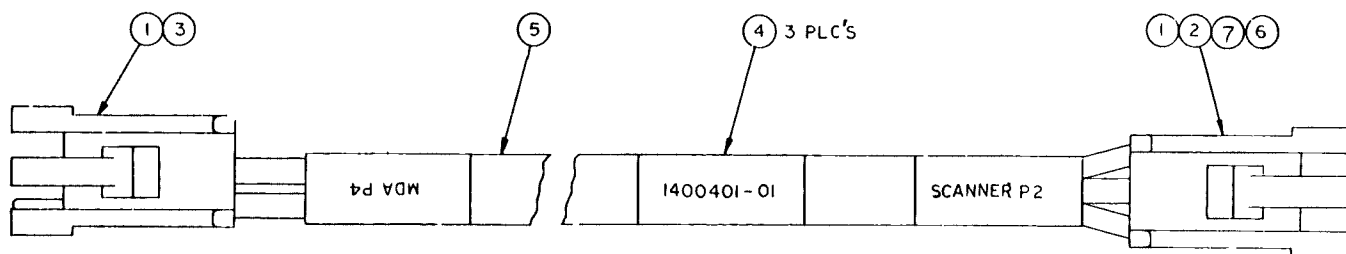


Assembly No. 1400512-03R. Transport Card Rack Front Door Assembly



6	7	310-918	LATCH PART, PUSHBUTTON, PLUNGER
1	6	471-061	SCREW, MACH. PAN HD. 4-40 X .312 LG.
1	5	501-562	WASHER, PLAIN, NYLON # 4
6	4	310-917	LATCH PART, PUSHBUTTON, GROMMET
1	3	1403328-AA	LABEL, WARNING
1	2	1379192-01	LABEL
1	1	1400511-01	PANEL, REAR
	ITEM NO	PART NUMBER	DESCRIPTION

Assembly No. 1400514-01C. Transport Rear Door Assembly



SCHEMATIC

A/12	7		WIRE, STRANDED, INSULATED 18AWG.	
	6			
AVR	5	616-395	CABLE, SHIELDED & JACKETED, 2 COND, 18AWG	
AVR	4		SLEEVING, SHRINK, PVC, BLK, .250 DIA	
2	3	166-227	CONTACT, PIN, 16-18 AWG.	
3	2	166-225	CONTACT, SOCKET, 16-18 AWG.	
2	1	167-450	CONNECTOR, PLUG, RECT, 3 POS, REF: MDA P4, SCANNER P2.	
-01	ITEM NO.	PART NUMBER	DESCRIPTION	

Assembly No. 1400401-01D. Scanner Cable Assembly

APPENDIX A

INTEGRATED CIRCUITS

Table A-1. Integrated Circuit Ampex Part Numbers

AMPEX PART NO.	MANUFACTURER'S PART NO.	MANUFACTURER	PAGE NO.
586-075	SN7400	Motorola	A-1
586-076	SN7410N	Texas Instruments	A-1
586-077	SN7420N	Texas Instruments	A-1
586-108	SN7474	Texas Instruments	A-2
586-109	SN7402	Motorola	A-2
586-124	F μ 710HC	Fairchild	A-3
586-203	CA3028B	RCA	A-3
586-255	CA3019	RCA	A-4
586-261 See 586-579			A-9
586-276	CA3046	RCA	A-4
586-315	LH0002C	National Semiconductor	A-5
586-325	SN7405N	Texas Instruments	A-5
586-326	MC7404	Motorola	A-6
586-335	LM306	National Semiconductor	A-6
586-440	FC747DC	Fairchild	A-7
586-477	CA3026	RCA	A-7
586-449	SN72723J	Texas Instruments	A-8
586-450	SN74164	Texas Instruments	A-8
586-533	SN74121N	Texas Instruments	A-9
586-579	LM102	National Semiconductor	A-9
586-617	FC9602DC	Fairchild	A-10
586-623	747DM	Fairchild	A-10
586-690	SN7406N	Texas Instruments	A-11
586-704	SN7445N	Texas Instruments	A-11
586-705	SN7486	Texas Instruments	A-11
586-746	SN74180N	Texas Instruments	A-12
586-752	SN7416N	Texas Instruments	A-12
586-753	SN75451BP	Texas Instruments	A-13
586-759	SN7408N	Texas Instruments	A-13
586-754 See 586-623			A-10
586-776	MC1357P	Motorola	A-14
586-797	SN74123	Texas Instruments	A-14
586-830	SN74S00N	Texas Instruments	A-15
586-890	SN7417N	Texas Instruments	A-15
586-891	D129	Siliconix	A-15

Table A-1. Integrated Circuit Ampex Part Numbers (Continued)

AMPEX PART NO.	MANUFACTURER'S PART NO.	MANUFACTURER	PAGE NO.
586-903	FC74157PC	Fairchild	A-16
586-905	SN72558P	Texas Instruments	A-17
586-906	SN74191	Texas Instruments	A-18
586-917	SN7427N	Texas Instruments	A-19
586-918	SN7432	Texas instruments	A-19
586-922 See 587-772			A-51
586-923	SN74163	Texas Instruments	A-19
586-924	74174	Texas Instruments	A-20
586-925 See 587-152			A-25
586-978	SN74S112N	Texas Instruments	A-20
586-991	SN75452P	Texas Instruments	A-21
587-051	SN7425N	Texas Instruments	A-21
587-086	LM311N	National Semiconductor	A-22
587-106	NE592K	Signetics	A-22
587-127	DS75453N	National Semiconductor	A-23
587-133	MC10116L	Motorola	A-23
587-139	MC10131L	Motorola	A-24
587-144 See 586-617			A-10
587-147	SN7414	Texas Instruments	A-24
587-152	SN74S175N	Texas Instruments	A-25
587-153	SN74S05N	Texas Instruments	A-25
587-157	DAC-01-HS	Precision Monolithic	A-26
587-163	MC1330P	Motorola	A-27
587-164	MC1350P	Motorola	A-28
587-217	DG200BA	Siliconix	A-28
587-266	SN74279	Texas Instruments	A-29
587-278	SN74S85N	Texas Instruments	A-29
587-279	SN74LS138N	Texas Instruments	A-30
587-283 See 586-076			A-1
587-299	MC7912-CK	Motorola	A-31
587-300	MC7812-CK	Motorola	A-31
587-303	CD4050BE	RCA	A-32
587-319	CD4011AE	RCA	A-32
587-322	CD4049E	RCA	A-33
587-325	MC10109L	Motorola	A-34
587-387 See 586-108			A-2
587-431	SN74221	Texas Instruments	A-34
587-438	7805VC	Fairchild	A-35
587-458	LM324	National Semiconductor	A-35
587-466	MC7905CP	Motorola	A-36
587-470	CD4051B	RCA	A-36
587-479	SN4128N	Texas Instruments	A-37
587-493	SN75452BP	Texas Instruments	A-37
587-510 See 586-075			A-1

Table A-1. Integrated Circuit Ampex Part Numbers (Continued)

AMPEX PART NO.	MANUFACTURER'S PART NO.	MANUFACTURER	PAGE NO.
587-514	SN74LS51N	Texas Instruments	A-38
587-523 See 586-918			A-19
587-533	SN74LS04N	Texas Instruments	A-38
587-534 See 586-759			A-13
587-535 See 586-797			A-14
587-536	74LS193	Fairchild/T.I.	A-38
587-537 See 587-431			A-34
587-543	SN7426N	Texas Instruments	A-39
587-544	SN7447AN	Texas Instruments	A-40
587-581	SN54LS01W	Texas Instruments	A-41
587-630	MC10115P	Motorola	A-41
587-647	CD4009AE	RCA	A-42
587-656	LM318N	National Semiconductor	A-42
587-657	LM310N	National Semiconductor	A-43
587-660	LM339M	National Semiconductor	A-43
587-677	CD4024AE	RCA	A-44
587-678	CD4030	RCA	A-44
587-680	CD4066AE	RCA	A-45
587-700	RC4136DB	Raytheon	A-45
587-703	MC10105P	Motorola	A-46
587-719	CA3126Q	RCA	A-46
587-720	CA3128Q	RCA	A-47
587-723	CD4053AE	RCA	A-47
587-746 See 586-705			A-11
587-749	CA3083	RCA	A-48
587-750	74LS02	Fairchild	A-48
587-751	SN74LS08PC	Texas Instruments	A-49
587-755 See 587-278			A-29
587-756	SN7493	Texas Instruments	A-49
587-757 See 587-152			A-25
587-758 See 587-266			A-29
587-759	SN74390N	Texas Instruments	A-50
587-760 See 586-903			A-16
587-761	SN74393N	Texas Instruments	A-50
587-764	MM74193	National Semiconductor	A-51
587-765 See 586-077			A-1
587-766 See 586-906			A-18
587-770 See 586-924			A-20
587-771 See 587-438			A-35
587-772	SN74LS161	Texas Instruments	A-51
587-773 See 586-923			A-19
587-775 See 586-978			A-20
587-777	SN74LS153N	Texas Instruments	A-52
587-779	MC7905.2CP	Motorola	A-52

Table A-1. Integrated Circuit Ampex Part Numbers (Continued)

AMPEX PART NO.	MANUFACTURER'S PART NO.	MANUFACTURER	PAGE NO.
587-782	CD4040AE	RCA	A-52
587-814	SN74LS283N	Texas Instruments	A-53
587-870	SN74LS02N	Texas Instruments	A-53
587-890 See 586-124			A-3
587-891	MLM311CP1	Motorola	A-54
587-895	74LS164	Fairchild	A-54
587-902 See 586-325			A-5
587-909 See 587-319			A-32
587-910	CD4047AE	RCA	A-55
587-933	CD4059AD	RCA	A-55
587-944 See 587-322			A-33
587-950 See 587-703			A-46
587-952	SN74LS27N	Texas Instruments	A-56
587-959	CD4010AE	RCA	A-56
587-960	CD4019AE	RCA	A-57
587-990 See 587-960			A-57
587-993	MC1741SC	Motorola	A-57
589-019	74C221	Motorola	A-58
589-024 See 589-905			A-80
589-048	MC1648L	Motorola	A-58
589-051	MC14528BCP	Motorola	A-59
589-089	SN74LS158N	Texas Instruments	A-59
589-091	SN74LS194	Texas Instruments	A-60
589-108	9328PC	Fairchild	A-60
589-158	SN74LS145N	Texas Instruments	A-61
589-247	LF13333N	National Semiconductor	A-61
589-298	F4001	Fairchild	A-62
589-299	F4014	Fairchild	A-62
589-300	F4025	Fairchild	A-63
589-301	F4069	Fairchild	A-63
589-302	F4071	Fairchild	A-64
589-303	F4073	Fairchild	A-64
589-304	F4075	Fairchild	A-65
589-305	F4077	Fairchild	A-65
589-306	F4081	Fairchild	A-66
589-307	F4104	Fairchild	A-66
589-308	F4516	Fairchild	A-67
589-309	F4528	Fairchild	A-67
589-310	F4725	Fairchild	A-68
589-311	F40097	Fairchild	A-68
589-312	F40161	Fairchild	A-69
589-313	F40194	Fairchild	A-69
589-315	F4013	Fairchild	A-70

Table A-1. Integrated Circuit Ampex Part Numbers (Continued)

AMPEX PART NO.	MANUFACTURER'S PART NO.	MANUFACTURER	PAGE NO.
589-331	SN74LS273N	Texas Instruments	A-70
589-334	SN74LS393N	Texas Instruments	A-71
589-370	SN74LS165N	Texas Instruments	A-71
589-397	SN74S225N	Texas Instruments	A-72
589-423	TL071	Texas Instruments	A-72
589-424	TL072CP	Texas Instruments	A-73
589-428	TL084CN	Texas Instruments	A-73
589-438	LM358N	National Semiconductor	A-74
589-441	LF356N	National Semiconductor	A-74
589-449	SN74LS244	Texas Instruments	A-74
589-481	NE5534N	Signetics	A-75
589-486	SN75460	Texas Instruments	A-75
589-537	SN74374	Texas Instruments	A-76
589-591	SN74LS390N	Texas Instruments	A-76
589-596	SN75413	Texas Instruments	A-77
589-642	CD4015	RCA	A-77
589-665	CD4056BE	RCA	A-77
589-747	SN74LS299N	Texas Instruments	A-78
589-748	82S112	Signetics	A-79
589-759	MC6802	Motorola	A-79
589-799	CA2111AE	RCA	A-80
589-813 See 586-075			A-1
589-814 See 587-533			A-38
589-815 See 586-759			A-13
589-816 See 586-076			A-1
589-818 See 586-077			A-1
589-820 See 586-108			A-2
589-821 See 587-278			A-29
589-823 See 587-279			A-30
589-825 See 586-903			A-16
589-826 See 589-089			A-59
589-827 See 587-895			A-54
589-830 See 586-924			A-20
589-831 See 587-152			A-25
589-832 See 587-536			A-38
589-837 See 586-830			A-15
589-839 See 587-751			A-49
589-854 See 587-761			A-50
589-905	M1100-4M	M.F. Electronics	A-80
589-906	9613TC	Fairchild	A-81
589-929 See 586-325			A-5
589-930 See 587-952			A-56
589-933 See 587-772			A-51
589-934 See 587-431			A-35
589-935 See 589-334			A-71
589-951 See 586-906			A-18

Table A-1. Integrated Circuit Ampex Part Numbers (Continued)

AMPEX PART NO.	MANUFACTURER'S PART NO.	MANUFACTURER	PAGE NO.
589-973	NE5539	Signetics	A-81
589-989 See 589-481			A-75
590-023	MC68A02P	Motorola	A-82
590-135 See 587-152			A-25
590-326 See 589-139			A-24
590-328 See 586-918			A-19
590-329 See 586-797			A-14
590-330 See 587-630			A-41
590-331 See 587-647			A-42
590-333 See 586-923			A-19
590-335 See 589-331			A-70
590-336 See 589-591			A-76
590-447 See 587-458			A-35
590-448 See 587-657			A-43
590-449 See 587-660			A-43
590-450 See 587-723			A-47
590-451 See 587-759			A-50
590-452 See 589-091			A-60
590-453 See 589-158			A-61
590-454 See 589-247			A-61
590-455 See 589-397			A-72
590-456 See 589-747			A-78
590-496 See 587-703			A-46
590-497 See 589-370			A-71
590-502 See 589-424			A-73
590-503 See 589-438			A-74
590-534 See 586-440			A-7
590-535 See 586-450			A-8
590-536 See 586-690			A-11
590-537 See 586-705			A-11
590-538 See 586-759			A-13
590-541 See 586-918			A-19
590-543 See 587-133			A-23
590-544 See 587-147			A-24
590-548 See 587-514			A-38
590-352 See 587-266			A-29
590-553 See 586-124			A-3
590-575 See 586-746			A-12
590-577 See 587-772			A-51
590-579 See 587-493			A-37
590-581 See 589-108			A-60
590-582 See 589-423			A-72
590-583 See 589-428			A-73
590-584 See 589-449			A-74
590-585 See 589-486			A-75

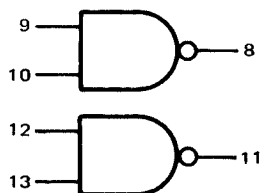
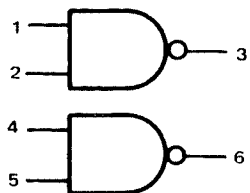
Table A-1. Integrated Circuit Ampex Part Numbers (Continued)

AMPEX PART NO.	MANUFACTURER'S PART NO.	MANUFACTURER	PAGE NO.
590-586 See 589-537			A-76
590-589 See 589-481			A-75
590-590 See 586-704			A-11
590-591 See 587-479			A-37
590-599 See 587-749			A-48
590-600 See 587-756			A-49
590-601 See 589-441			A-71
590-605 See 587-891			A-54
590-606 See 587-814			A-53
590-609 See 586-326			A-6
590-610 See 586-533			A-9
590-611 See 586-623			A-10
590-616 See 587-431			A-34
590-617 See 587-656			A-42
590-618 See 587-680			A-45
590-619 See 587-700			A-45
590-620 See 586-705			A-11

MOTOROLA
MC 7400

AMPEX
586-075

QUAD 2-INPUT
NAND GATE

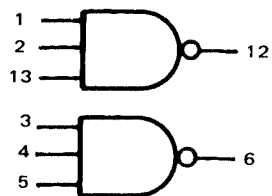


PIN 7 = GND
PIN 14 = V_{cc} (+5V)
3 = $\overline{1,2}$

TEXAS INSTRUMENTS
SN 7410 N

AMPEX
586-076

3-INPUT
NAND GATE

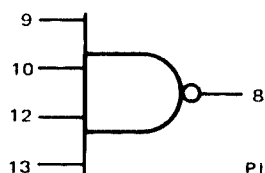
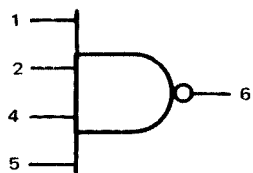


PIN 7 = GND
PIN 14 = V_{cc}
12 = $\overline{1,2,13}$

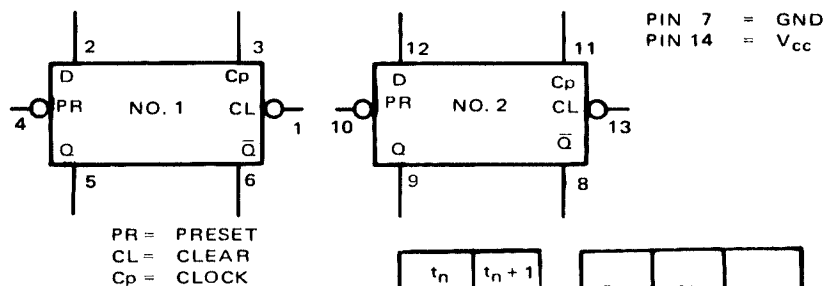
TEXAS INSTRUMENTS
SN 7420 N

AMPEX
586-077

4-INPUT
NAND GATE

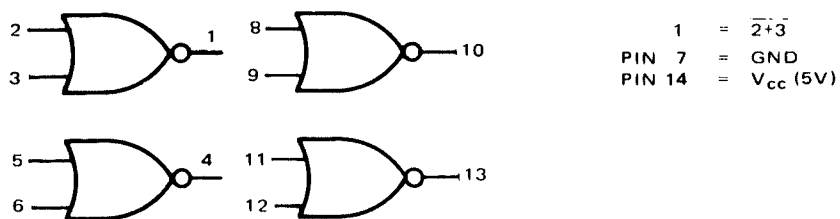


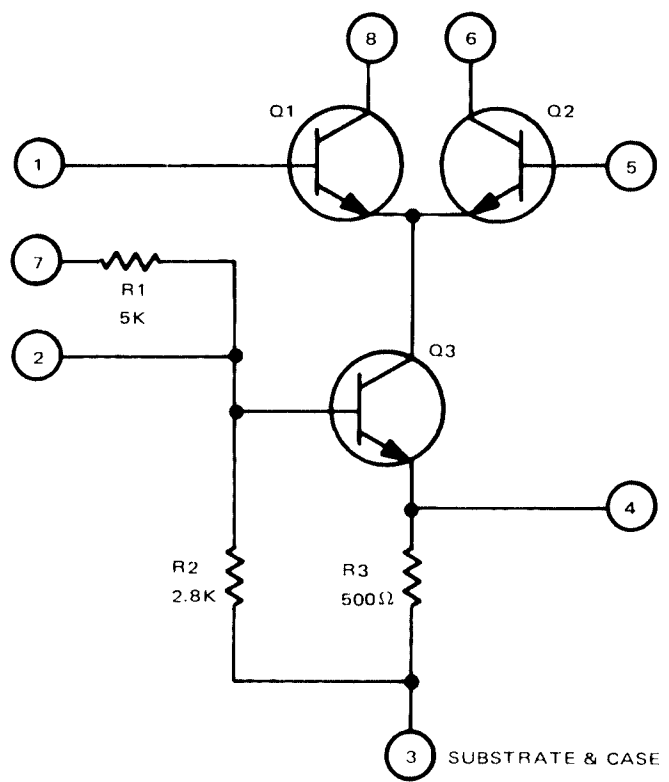
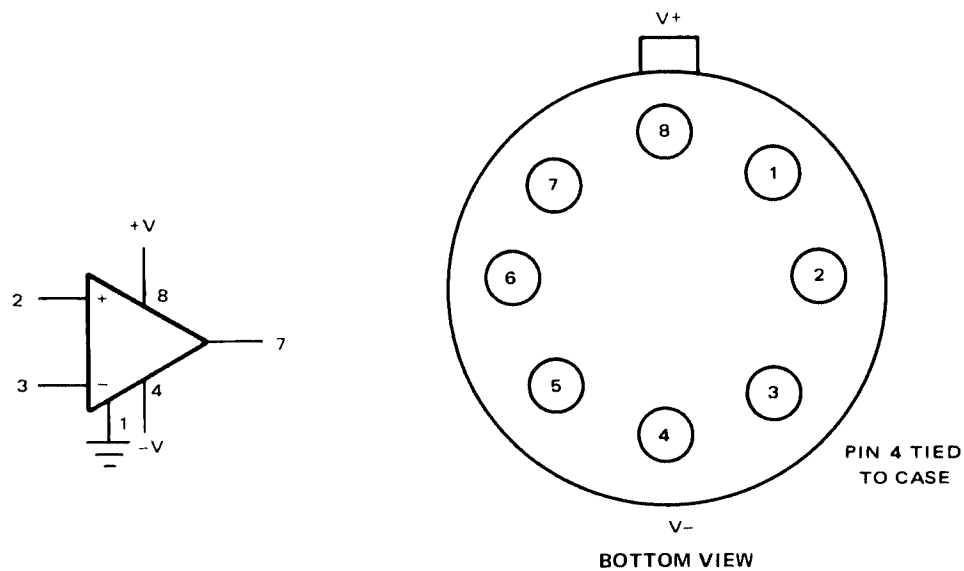
PIN 7 = GND
PIN 14 = V_{cc}
6 = $\overline{1,2,4,5}$



t_n	t_{n+1}			
D	Q	PR	CL	Q
L	L	L	H	H
H	H	H	L	L
		L	L	ND

t_{n+1} IS TIME AFTER POSITIVE
TRANSITION OF CLOCK

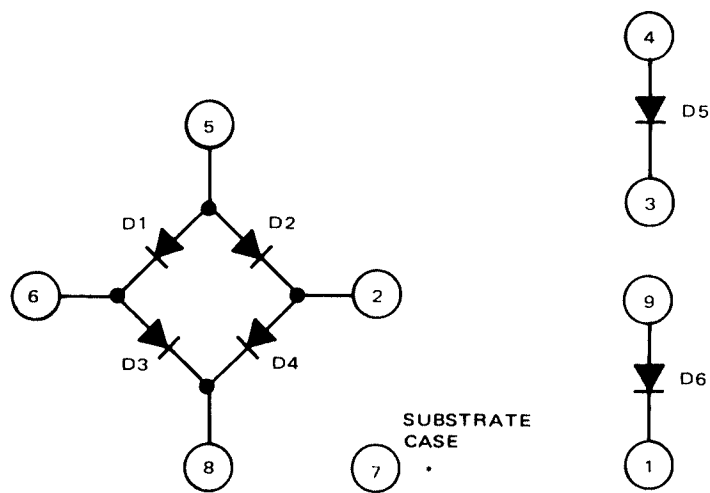




RCA
CA 3019

AMPEX
586-255

DIODE
ARRAY

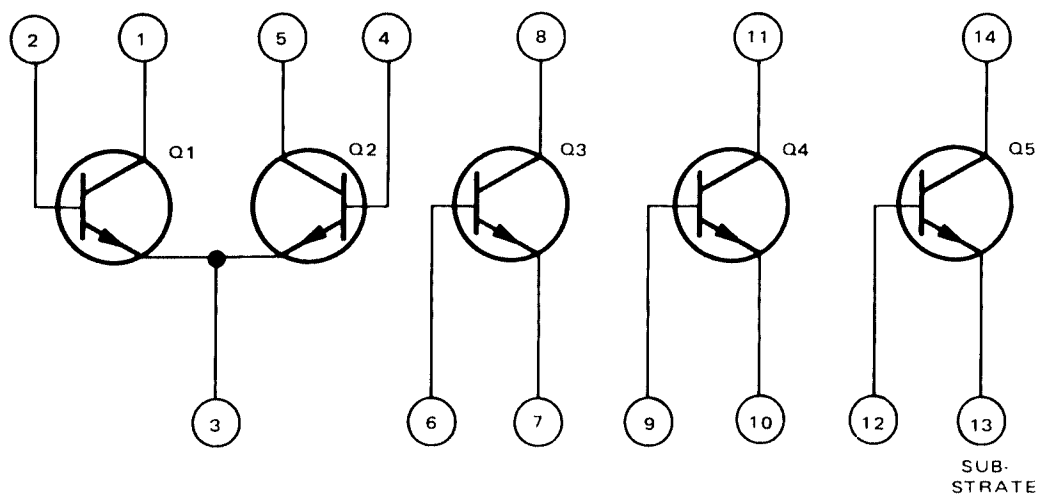


* CONNECT TO MOST NEGATIVE CIRCUIT POTENTIAL.

RCA
CA 3046

AMPEX
586-276

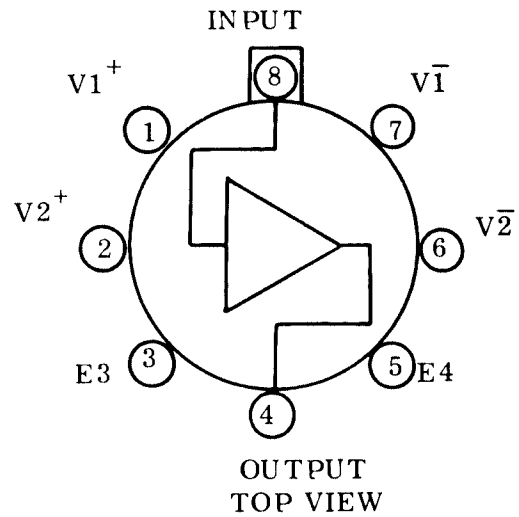
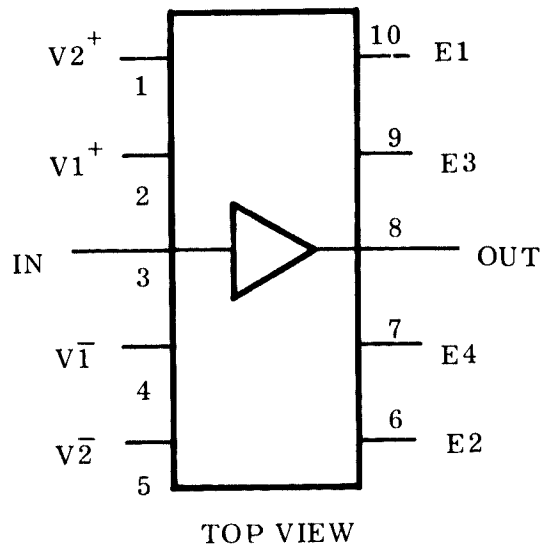
GENERAL PURPOSE
TRANSISTOR ARRAY



NATIONAL SEMI
LH 0002 C
LH 0002 CN

AMPEX
586-315
587-270

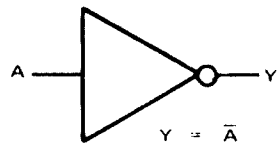
CURRENT AMPLIFIER



TEXAS INSTRUMENTS
SN 7405 N

AMPEX
586-325

HEX INVERTER
OPEN COLLECTOR



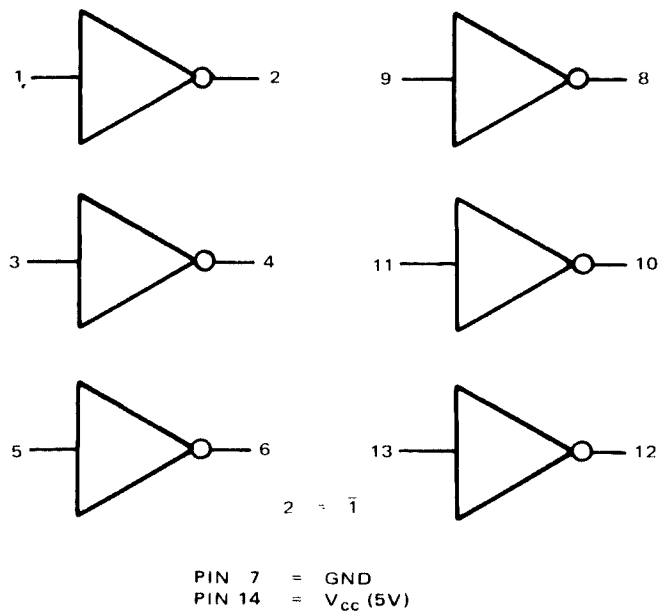
A	1	3	5	9	11	13
Y	2	4	6	8	10	12

PIN 7 = GND
PIN 14 = V_{CC}

MOTOROLA
MC 7404

AMPEX
586-326

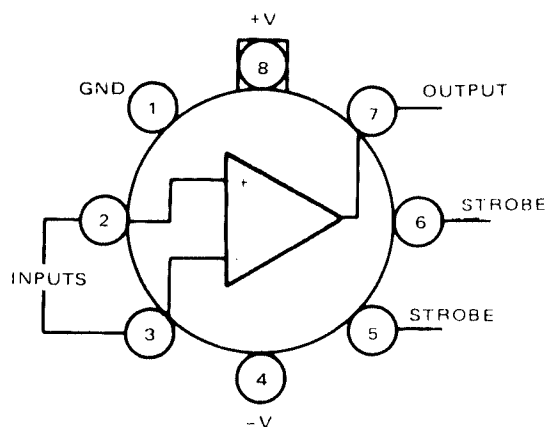
HEX
INVERTER



NATIONAL SEMICONDUCTOR
LM 306

AMPEX
586-335

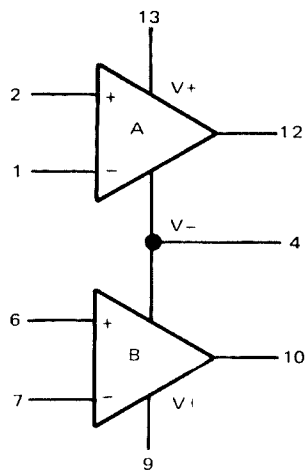
VOLTAGE
COMPARATOR/
BUFFER



FAIRCHILD
FC 747 DC

AMPEX
586-440

DUAL OPERATIONAL
AMPLIFIER

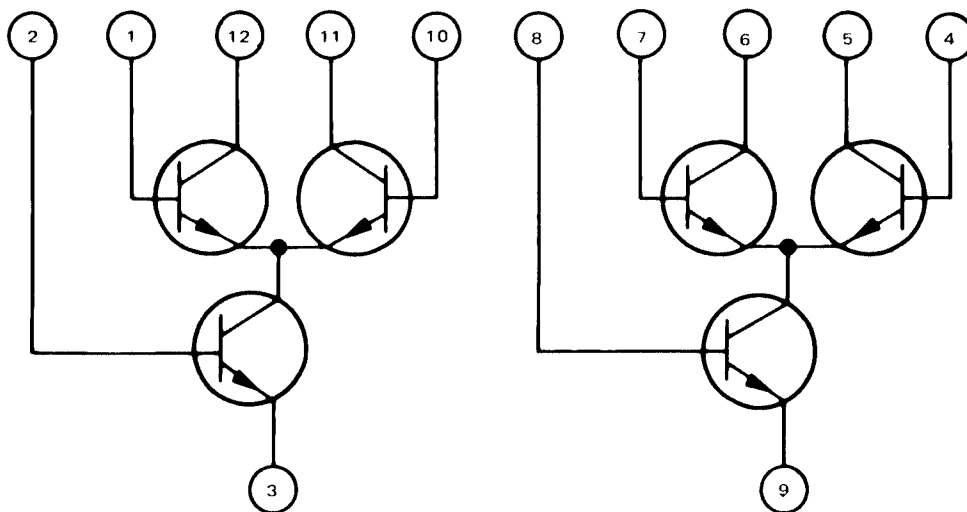


PIN 3 = OFFSET NULL A
PIN 5 = OFFSET NULL B
PIN 8 = OFFSET NULL B
PIN 14 = OFFSET NULL A
PIN 11 = NO CONNECTION

RCA
CA 3026

AMPEX
586-447

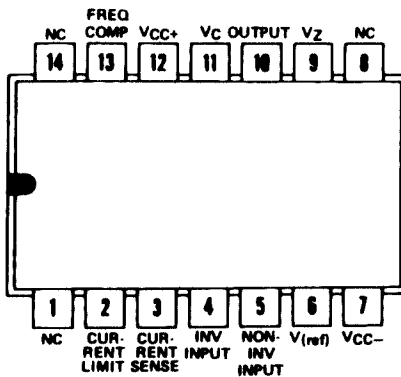
DUAL DIFFERENTIAL
AMPLIFIER



TEXAS INST
SN72723J

AMPEX
586-449

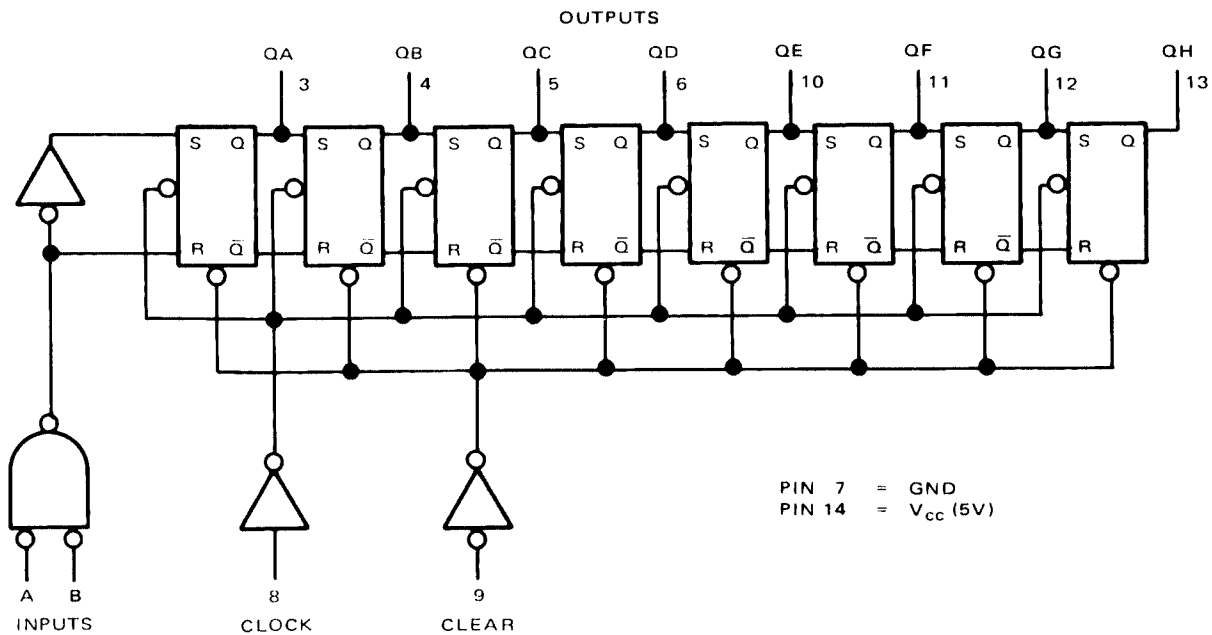
PRECISION VOLTAGE REGULATORS

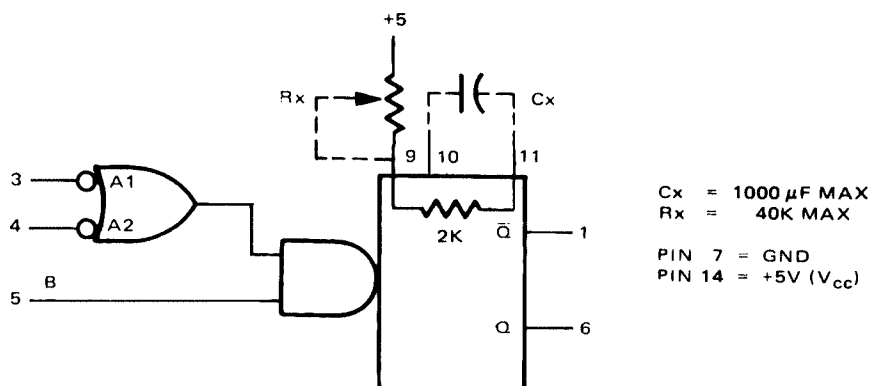


TEXAS INSTRUMENTS
SN 74164

AMPEX
586-450

8-BIT PARALLEL OUT
SERIAL SHIFT REGISTER



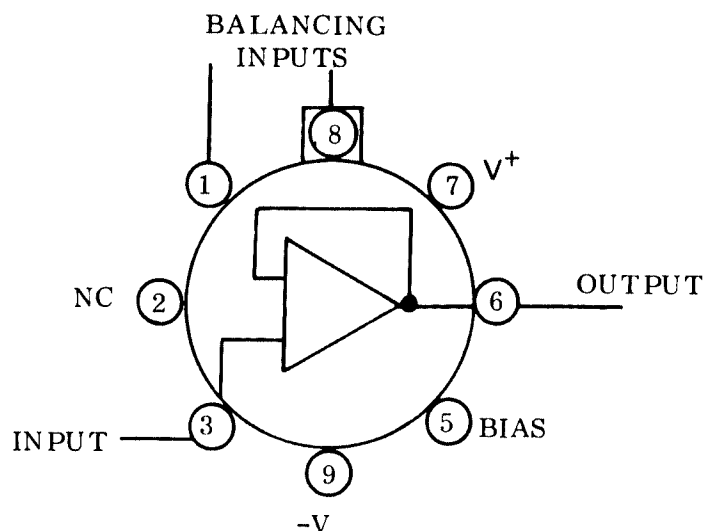


A1 AND A2 TRIGGER THE ONE-SHOT WHEN EITHER OR BOTH GO TO "0" WITH B AT "1."

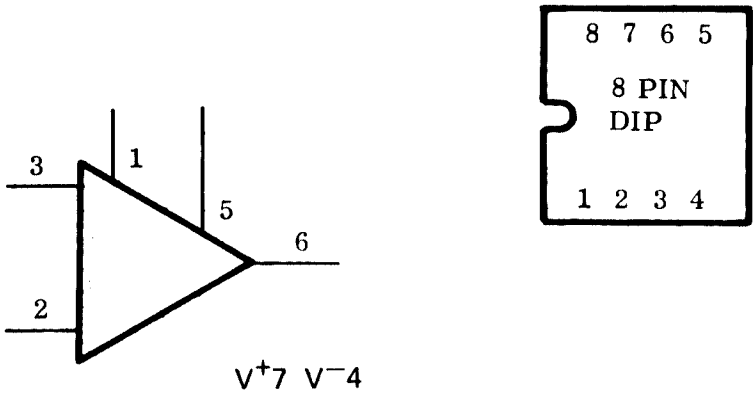
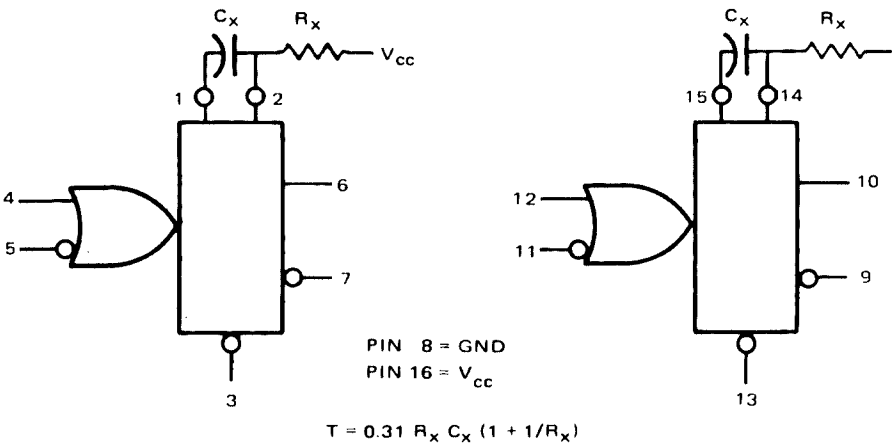
B IS A POSITIVE SCHMITT - TRIGGER INPUT AND WILL TRIGGER THE ONE-SHOT WHEN IT GOES TO "1" WITH EITHER A1 OR A2 AT "0."

EXTERNAL TIMING CAPACITOR MAY BE CONNECTED FROM PINS 10 TO 11. WITH NO EXTERNAL TIMING COMPONENTS OUTPUT PULSE WIDTH IS APPROXIMATELY 30 NS.

TO USE INTERNAL TIMING RESISTOR, CONNECT PIN 9 TO 14 (V_{CC}). TO USE EXTERNAL VARIABLE TIMING RESISTOR, CONNECT BETWEEN PINS 9 AND 14. FOR ACCURATE NON-VARIABLE PULSE WIDTHS, CONNECT EXTERNAL TIMING RESISTOR FROM PIN 11 TO 14 WITH PIN 9 OPEN - CIRCUITED.



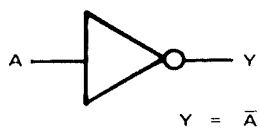
$-55^\circ \text{ to } 125^\circ \text{ c}$
 500 MW



TEXAS INSTRUMENTS
SN 7406 N

AMPEX
586-690

HEX
INVERTER/BUFFER



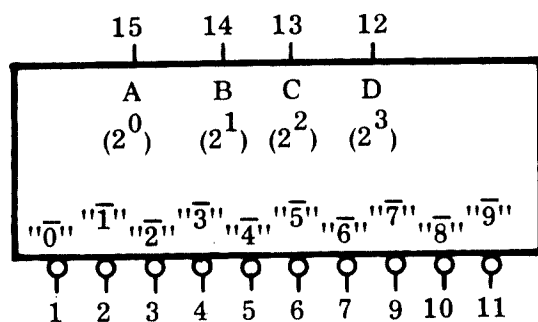
PIN 7 = GND
PIN 14 = V_{CC}
OPEN COLLECTOR

A	Y
1	2
3	4
5	6
9	8
11	10
13	12

TEXAS INSTR
SN 7445N

AMPEX
586-704

BCD TO DECIMAL DECODER/DRIVER
80 MA OUTPUTS

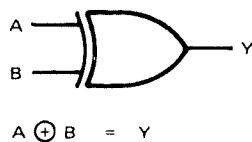


V_{CC} 16
GND 8

TEXAS INSTRUMENTS
SN 7486

AMPEX
586-705

QUAD
EXCLUSIVE OR GATE



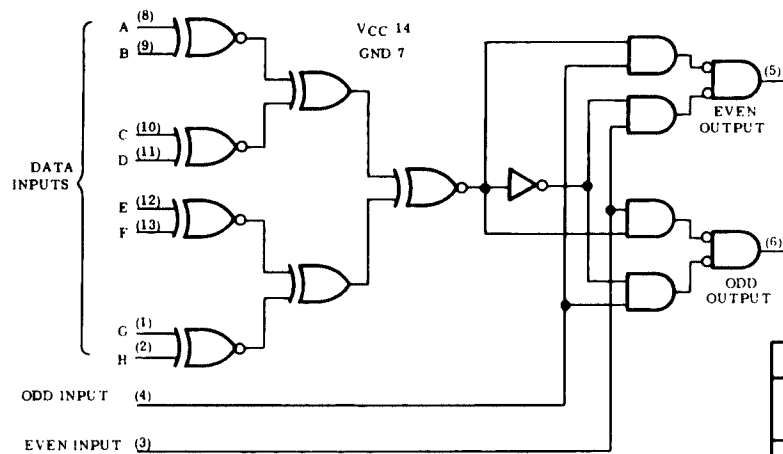
A	B	Y
1	2	3
4	5	6
9	10	8
12	13	11

PIN 7 = GND
PIN 14 = V_{CC}

TEXAS INSTR
SN74180N

AMPEX
586-746

9 BIT PARITY GENERATOR/
CHECKER



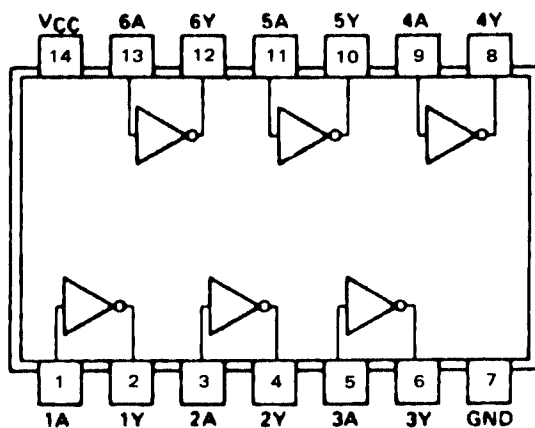
FUNCTION TABLE

INPUTS		OUTPUTS		
OF 1'S AT A THRU H	EVEN	ODD	EVEN	ODD
EVEN	H	L	H	L
ODD	H	L	L	H
EVEN	L	H	L	H
ODD	L	H	H	L
X	H	H	L	L
X	L	L	H	H

TEXAS INST
SN7416N

AMPEX
586-752

HEX INVERTER BUFFERS/DRIVERS WITH
OPEN-COLLECTOR HIGH-VOLTAGE OUTPUTS



Positive Logic $Y = \bar{A}$

TEXAS INSTR

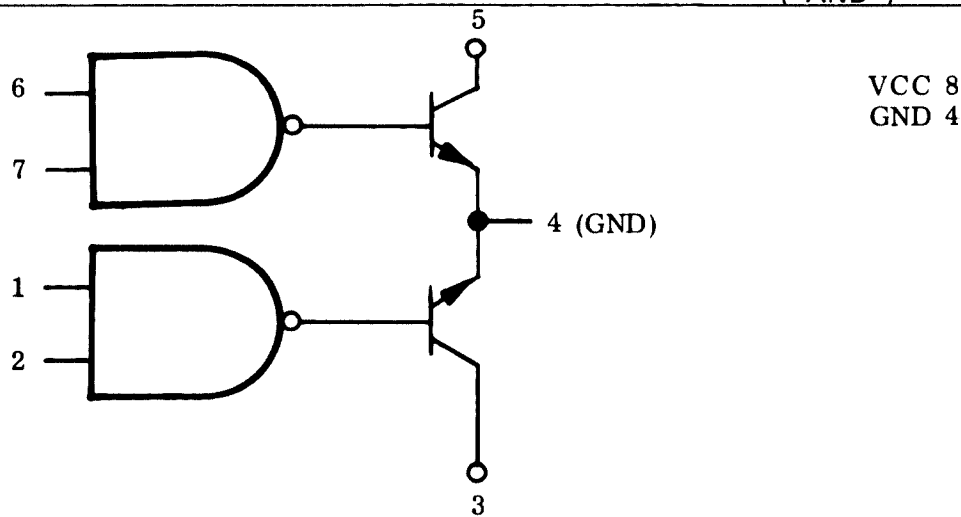
AMPEX

SN 75451BP

586-753

586-938

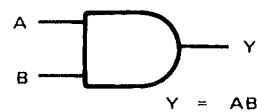
DUAL PERIPHERAL LINE DRIVER
("AND")



TEXAS INSTRUMENTS
SN 7408 N

AMPEX
586-759

QUAD 2-INPUT
AND GATE



A	1	4	9	12
B	2	5	10	13
Y	3	6	8	11

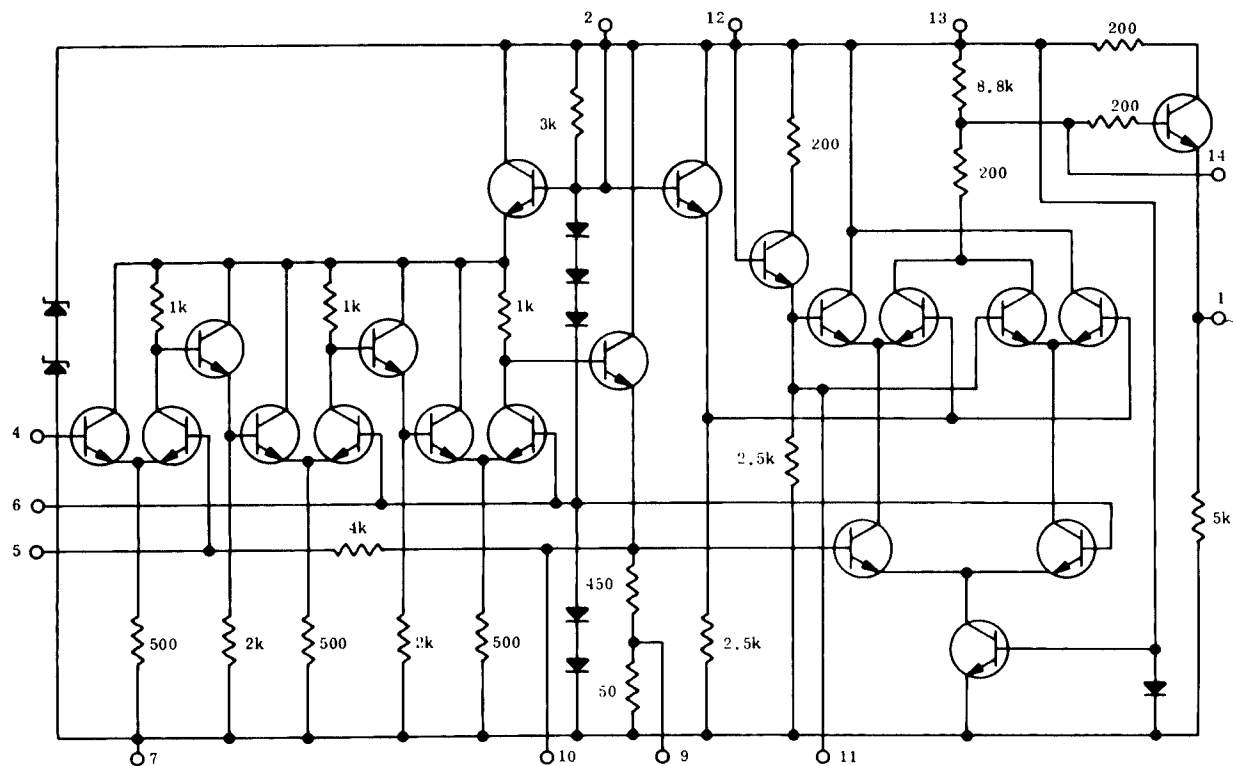
PIN 7 = GND

PIN 14 = V_{CC}

MOTOROLA
MC1357P

AMPEX
586-776

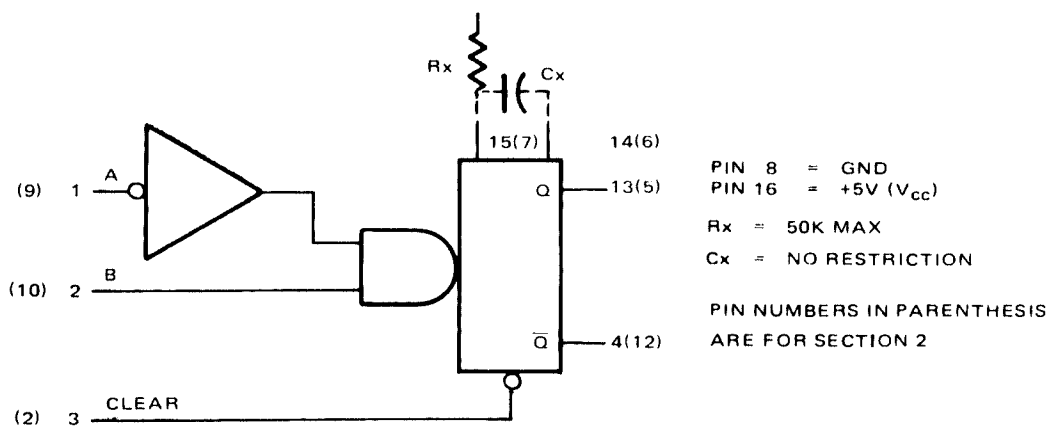
RF/IF AMPLIFIER AND
QUADRATURE DET. 14 PIN DIP



TEXAS INSTRUMENTS
SN 74123

AMPEX
586-797

DUAL RETRIGGERABLE
MONOSTABLE MULTIVI-
BRATOR WITH CLEAR

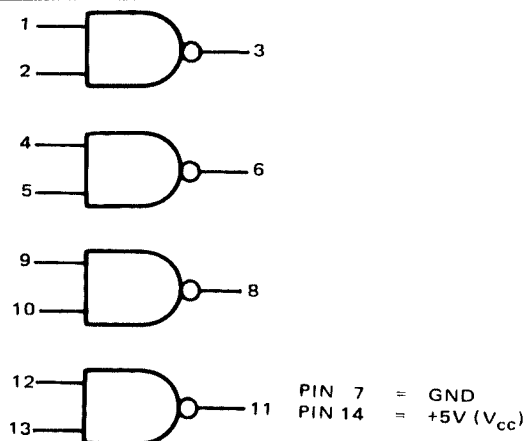


$$PW(ns) = 0.32 R_x C_x \left(1 + \frac{0.7}{R_x}\right) \quad \text{WITH } R_x \text{ IN } K\Omega \text{ AND } C_x \text{ IN } pF.$$

TEXAS INSTRUMENTS
SN 74S00N

AMPEX
586-830

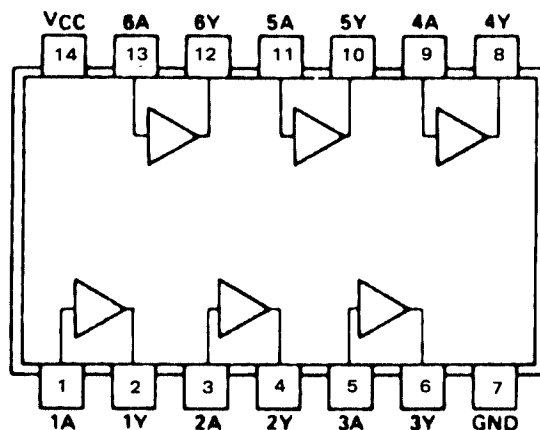
QUAD 2-INPUT
NAND GATE



TEXAS INST
SN7417N

AMPEX
586-890

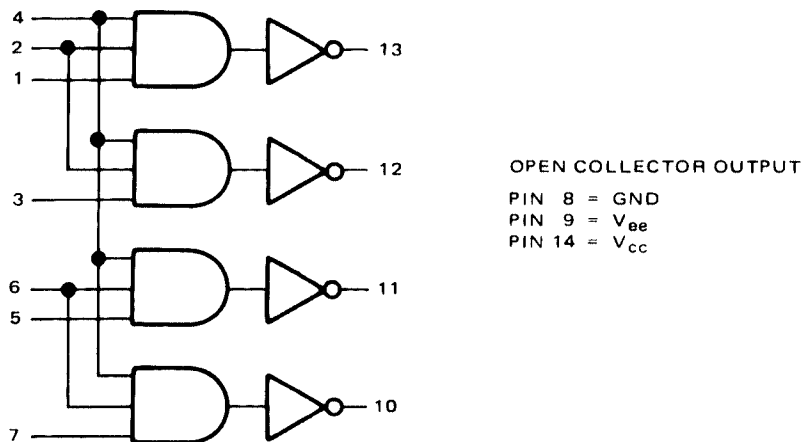
HEX BUFFERS/DRIVERS WITH
OPEN-COLLECTOR HIGH-VOLTAGE OUTPUTS

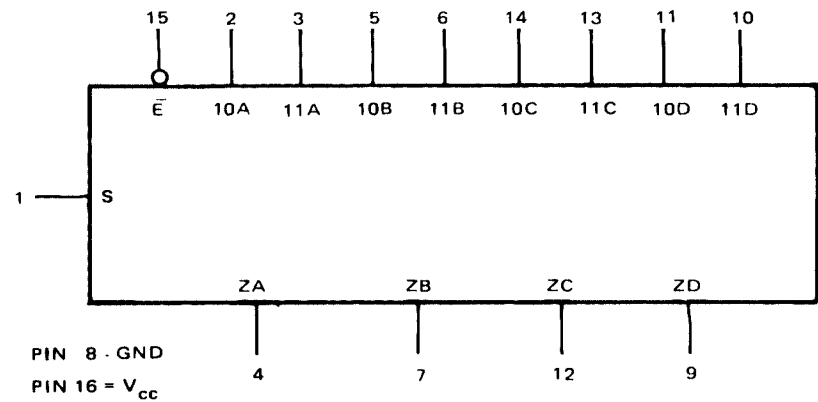


SILICONIX
D 129

AMPEX
586-891

QUAD DECODER
DTL TO FET





TRUTH TABLE

ENABLE	SELECT INPUT	INPUTS		OUTPUT
\bar{E}	S	I _{0x}	I _{1x}	Z _x
H	X	X	X	L
L	H	X	L	L
L	H	X	H	H
L	L	L	X	L
L	L	H	X	H

H = HIGH VOLTAGE LEVEL
L = LOW VOLTAGE LEVEL
X = EITHER HIGH OR LOW LOGIC LEVEL

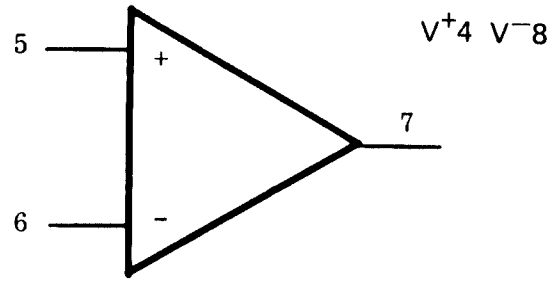
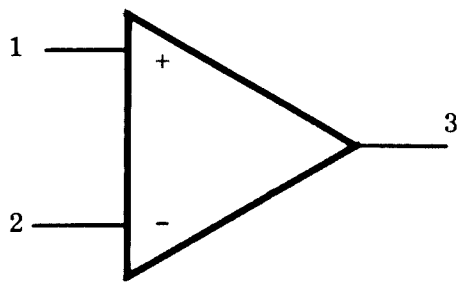
OUTPUT LOGIC EQUATIONS ARE:

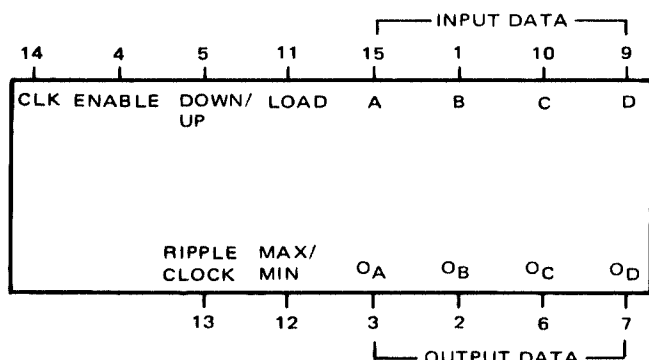
$$\begin{aligned}
Z_a &= E \bullet (I_{1a} \bullet S + I_{0a} \bullet \bar{S}) & Z_b &= E \bullet (I_{1b} \bullet S + I_{0b} \bullet \bar{S}) \\
Z_c &= E \bullet (I_{1c} \bullet S + I_{0c} \bullet \bar{S}) & Z_d &= E \bullet (I_{1d} \bullet S + I_{0d} \bullet \bar{S})
\end{aligned}$$

TEXAS INSTR
SN 72558P

AMPEX
586-905

DUAL GENERAL PURPOSE OP.
AMPL.



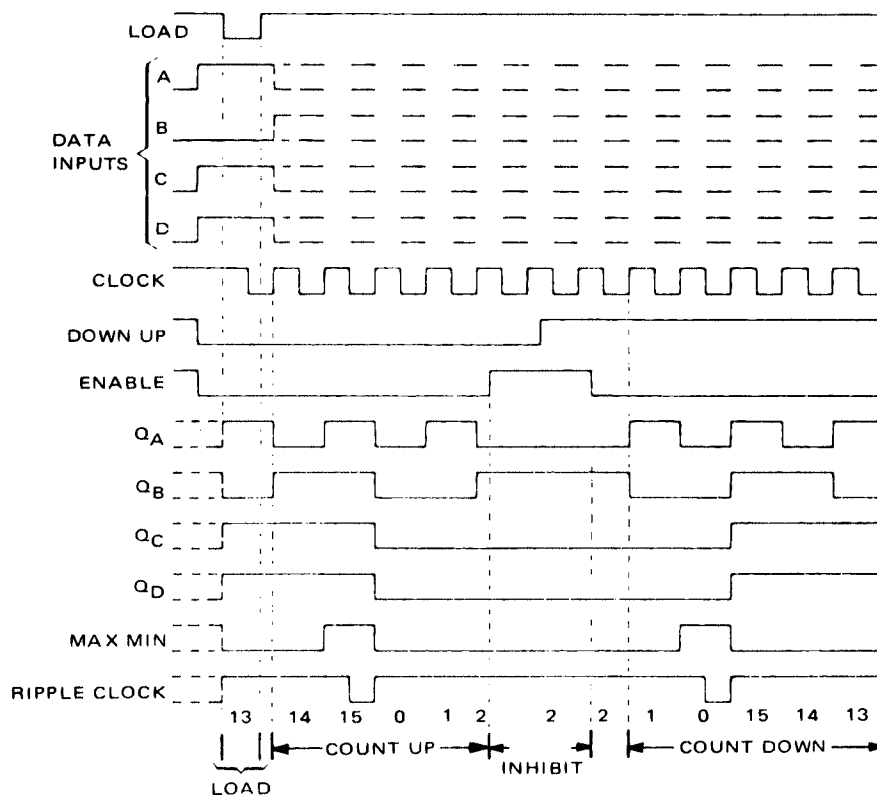


PIN 16 = +5V (V_{CC})
PIN 8 = GND
ASYNCHRONOUS INPUTS: LOW
INPUT TO LOAD SETS $O_A = A$,
 $O_B = B$, $O_C = C$, AND $O_D = D$.

TYPICAL LOAD, COUNT, AND INHIBIT SEQUENCES

THE FOLLOWING SEQUENCE ILLUSTRATES LOGIC LEVELS AND FUNCTIONS.

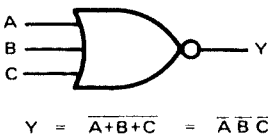
1. LOAD (PRESET) TO BINARY THIRTEEN'
2. COUNT UP TO FOURTEEN, FIFTEEN (MAXIMUM), ZERO, ONE, AND TWO.
3. INHIBIT.
4. COUNT DOWN TO ONE, ZERO (MINIMUM), FIFTEEN, FOURTEEN, AND THIRTEEN.



TEXAS INSTRUMENTS
SN 7427 N

AMPEX
586-917

3-INPUT
NOR GATE

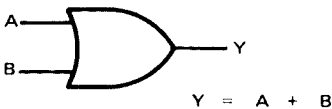


A	1	9	3
B	2	10	4
C	13	11	5
Y	12	8	6

TEXAS INSTRUMENTS
SN 7432

AMPEX
586-918

OR
GATE



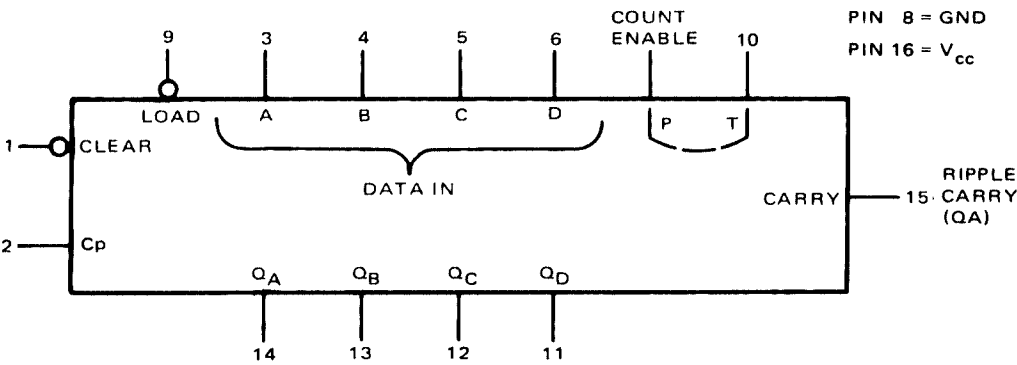
A	B	Y
1	2	3
4	5	6
9	10	8
12	13	11

PIN 7 = GND
PIN 14 = V_{cc}
TOTEM OUTPUT

TEXAS INSTRUMENTS
SN 74163

AMPEX
586-923

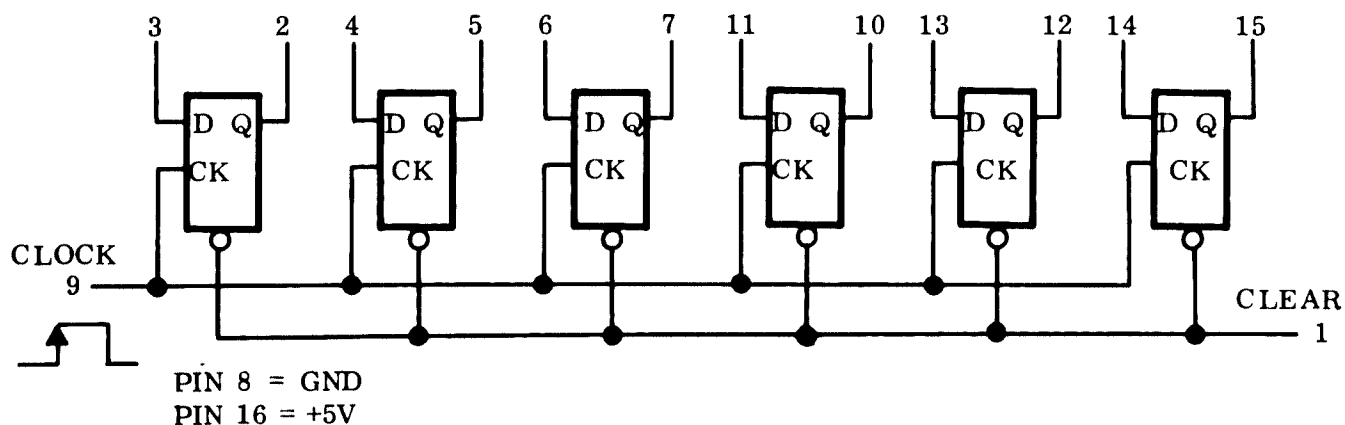
SYNCHRONOUS
BINARY COUNTER



T.I./NATL
SN74LS174N
MM 74C174
SN 74174

AMPEX
587-770
587-687
586-924

HEX D TYPE FLIP-FLOP WITH COMMON CLOCK AND COMMON CLEAR



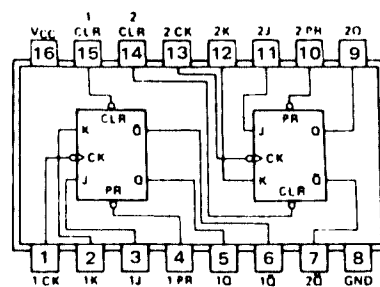
DATA IS CLOCKED INTO FLIP-FLOP ON POSITIVE TRANSITION. LOW OF THE CLEAR SETS AND HOLDS ALL OUTPUTS LOW.

TEXAS INSTRUMENTS
SN74S112N

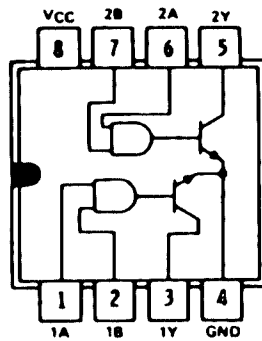
AMPEX
586-978

DUAL J-K NEGATIVE-EDGE-TRIGGERED FLIP-FLOPS WITH PRESET AND CLEAR

FUNCTION TABLE						
INPUTS					OUTPUTS	
PRESET	CLEAR	CLOCK	J	K	Q	\bar{Q}
L	H	X	X	X	H	L
H	L	X	X	X	L	H
L	L	X	X	X	H*	H*
H	H	↓	L	L	Q_0	\bar{Q}_0
H	H	↓	H	L	H	L
H	H	↓	L	H	L	H
H	H	↓	H	H	TOGGLE	
H	H	H	X	X	Q_0	Q_0



SN54LS112/SN74LS112(J, N, W)
SN54S112/SN74S112(J, N, W)



positive logic: $Y = \overline{AB}$

FUNCTION TABLE

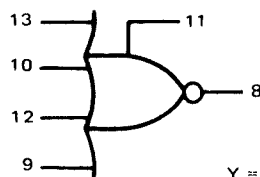
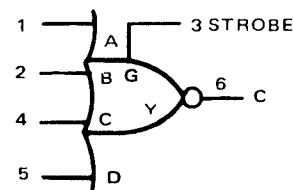
A	B	Y
L	L	H (off state)
L	H	H (off state)
H	L	H (off state)
H	H	L (on state)

H = high level, L = low level

TRUTH TABLE

IN					OUT
A	B	C	D	G	Y
H	X	X	X	H	L
X	H	X	X	H	L
X	X	X	X	H	L
X	X	X	H	H	L
X	X	X	L	H	L
X	X	X	X	L	H

X = DON'T CARE



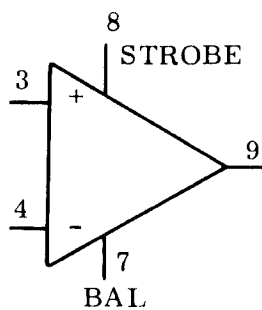
PIN 7 = GND
PIN 14 = V_{cc}

$$Y = \overline{(G)(A+B+C+D)} = \overline{G} + \overline{A}\overline{B}\overline{C}\overline{D}$$

NATIONAL SEMICONDUCTOR
LM311N

AMPEX
587-086

COMPARATOR

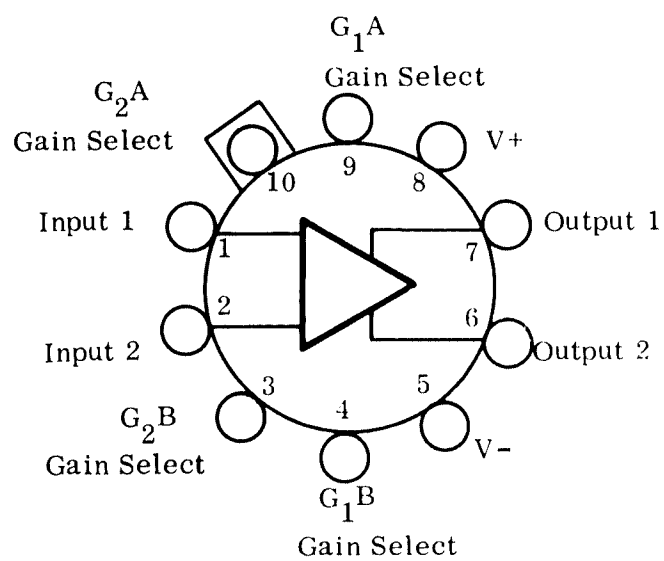


V+ 11
V- 6
Gnd 2

SIGNETICS
NE 592 K

AMPEX
587-106

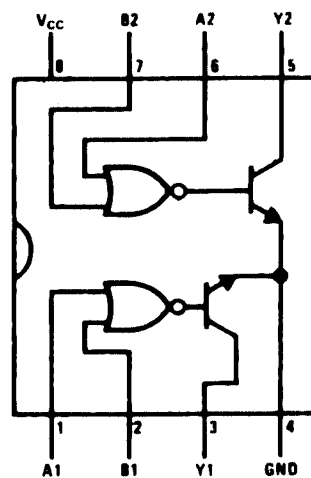
VIDEO AMP.



NATIONAL SEMI
DS75453N

AMPEX
587-127

PERIPHERAL/POWER DRIVER

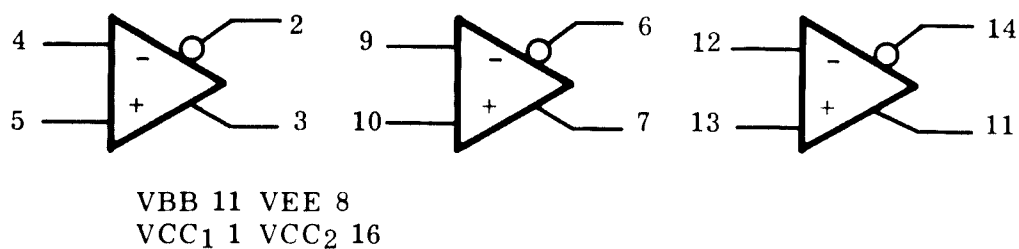


A	B	Y
L	L	L (ON State)
L	H	H (OFF State)
H	L	H (OFF State)
H	H	H (OFF State)

MOTOROLA
MC 10116 L
MC 10116 P

AMPEX
587-133
587-704

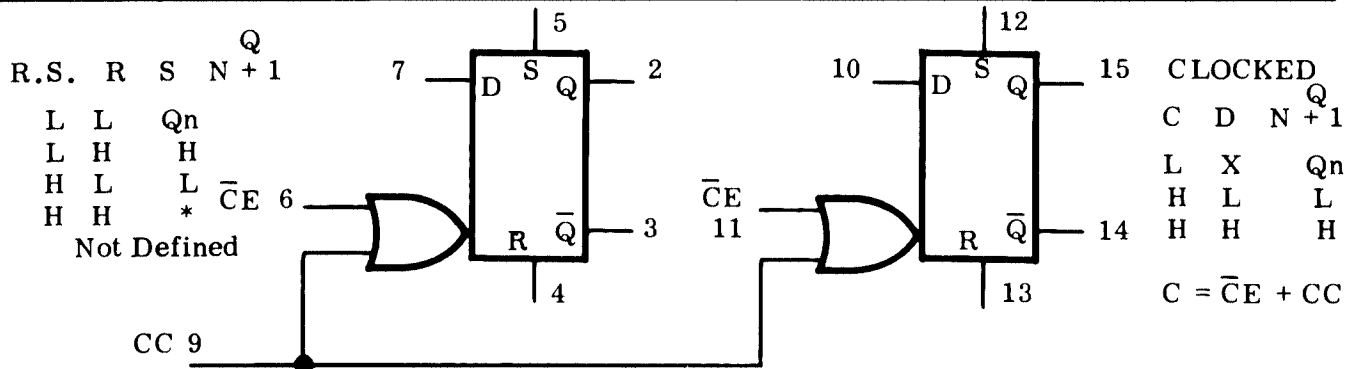
TRIPLE LINE RECEIVER ECL



MOTOROLA
MC 10131 L

AMPEX
587-139

DUAL D FLIP FLOP
ECL

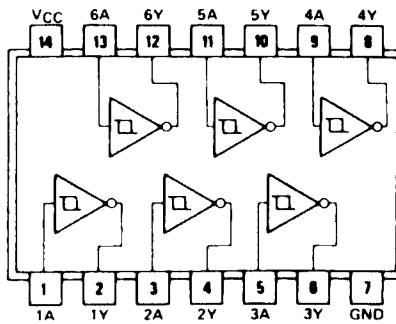


Vcc1 = PIN 1
Vcc2 = PIN 16
Vee = PIN 8

TEXAS INST
SN7414

AMPEX
587-147

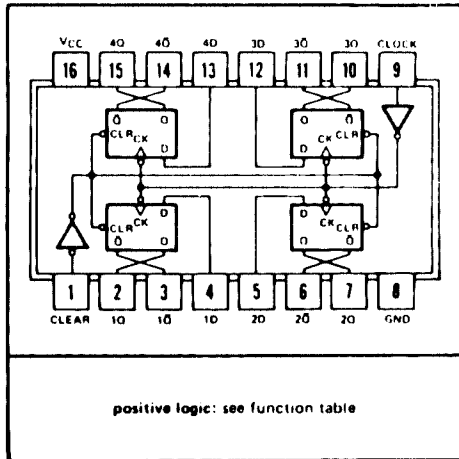
HEX SCHMITT-TRIGGER INVERTER



TEXAS INST
SN74S175N

AMPEX
587-152

HEX/QUADRUPLE D-TYPE
FLIP-FLOPS WITH CLEAR



FUNCTION TABLE
(EACH FLIP-FLOP)

INPUTS			OUTPUTS	
CLEAR	CLOCK	D	Q	\bar{Q} †
L	X	X	L	H
H	↑	H	H	L
H	↑	L	L	H
H	L	X	Q_0	\bar{Q}_0

H = high level (steady state)

L = low level (steady state)

X = irrelevant

↑ = transition from low to high level

Q_0 = the level of Q before the indicated steady state input conditions were established.

† = '175, 'LS175, and 'S175 only

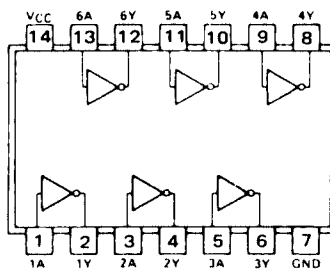
TEXAS INSTRUMENTS
SN74S05N

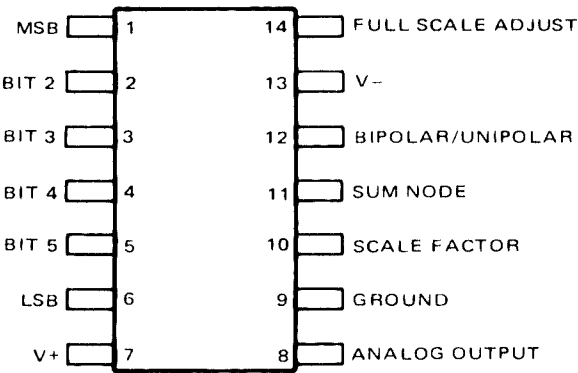
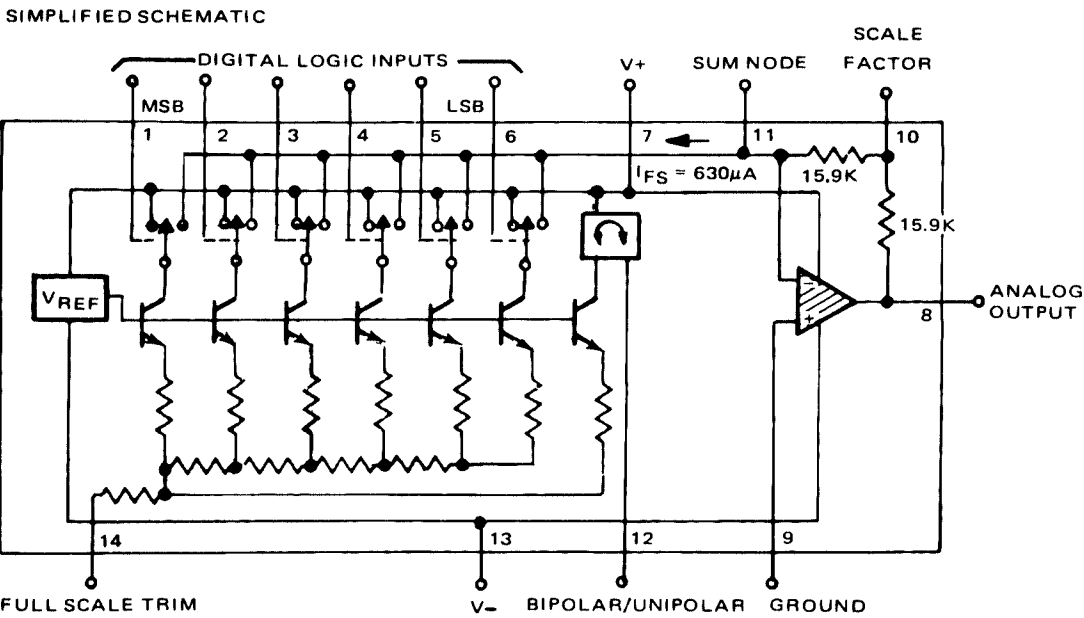
AMPEX
587-153

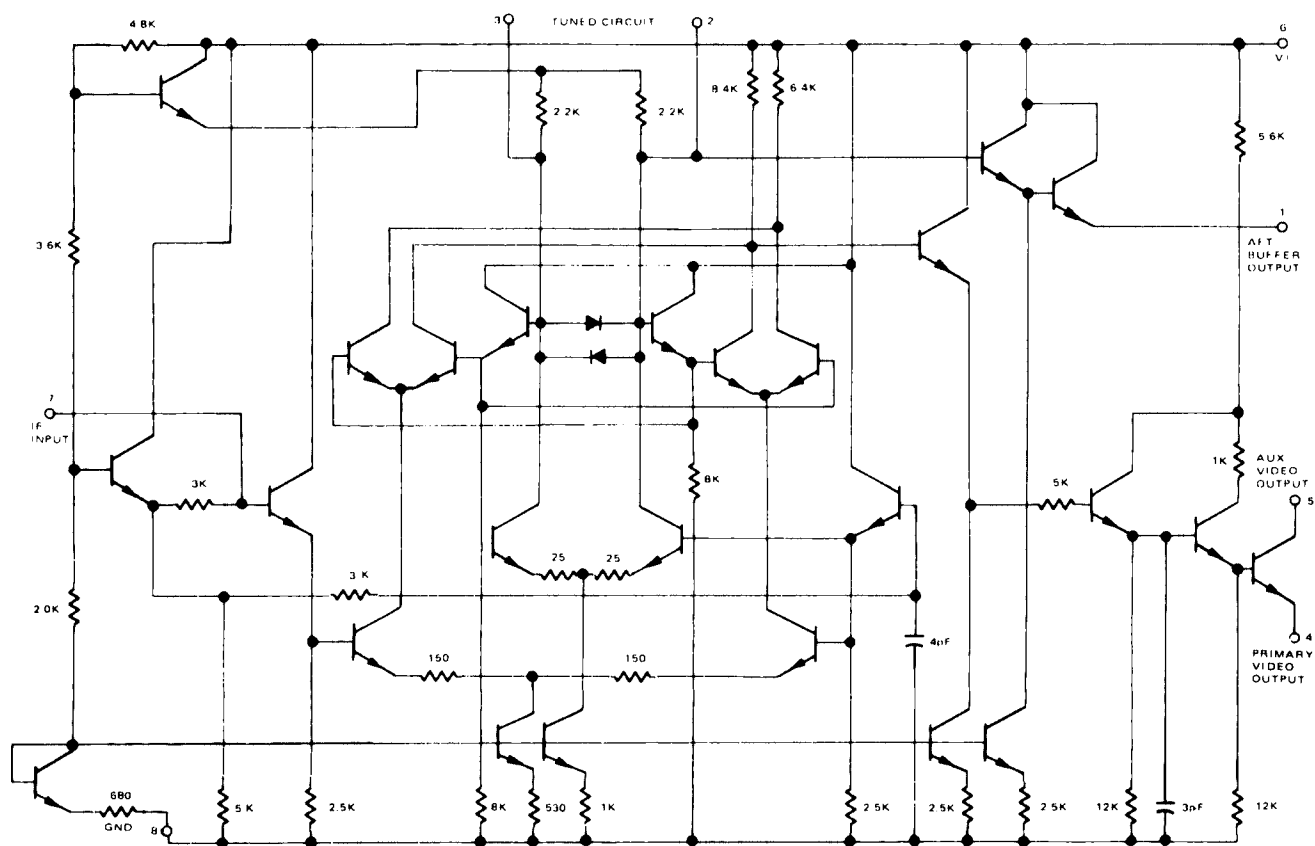
HEX INVERTERS WITH
OPEN-COLLECTOR INPUTS

POSITIVE LOGIC

$$Y = \bar{A}$$



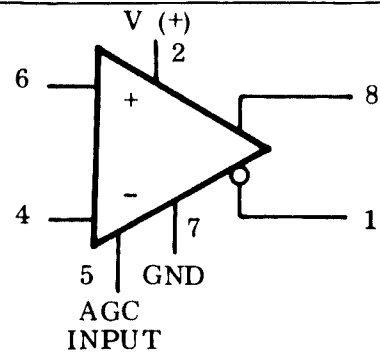




SN 76600P
(MC 1350P)

587-164

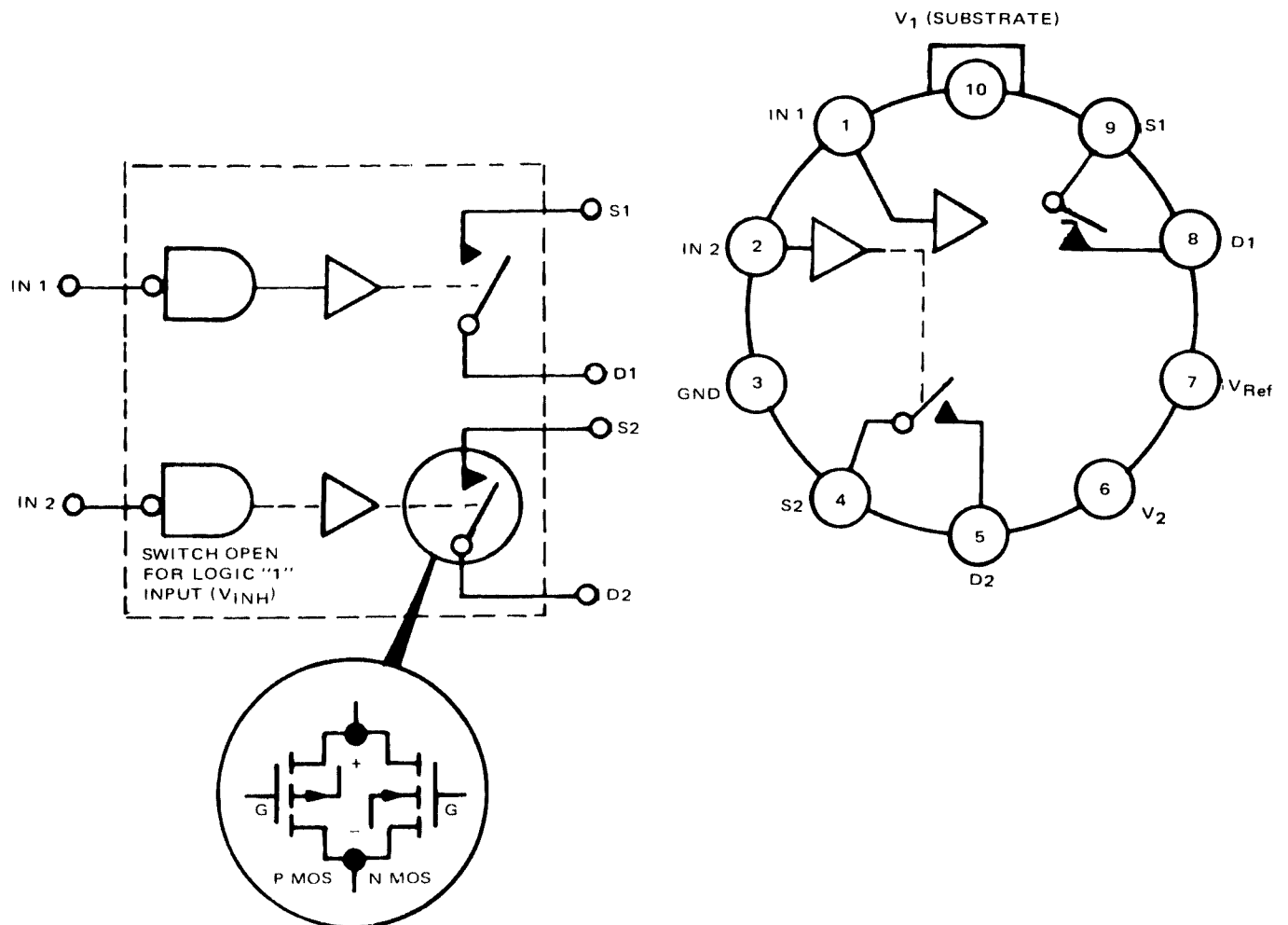
IF AMPLIFIER

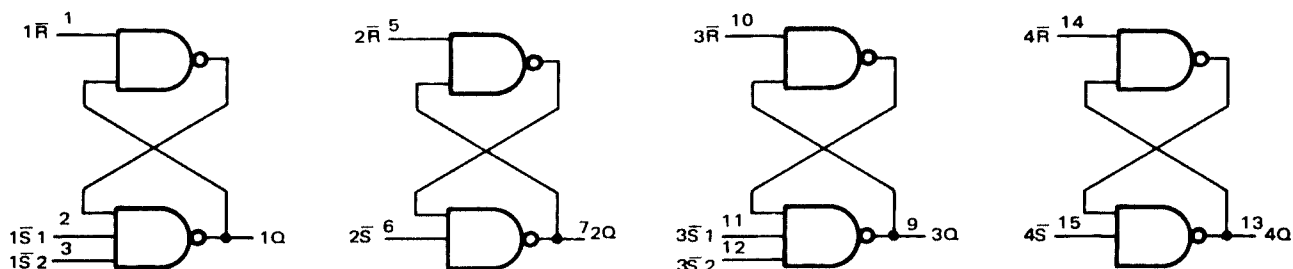


SILICONIX
DG 200 BA

AMPEX
587-217

DUAL SPST CMOS ANALOG
TRANSMISSION GATE





FUNCTION TABLE

INPUTS \bar{S} \bar{R}	OUTPUT Q
H H	Q_0
L H	H
H L	L
L L	H^*

H = HIGH

L = LOW LEVEL

Q_0 = THE LEVEL OF Q BEFORE THE INDICATED INPUT CONDITIONS WERE ESTABLISHED.

*THIS OUTPUT LEVEL IS PSEUDO STABLE, THAT IS, IT MAY NOT PERSIST WHEN THE \bar{S} AND \bar{R} INPUTS RETURN TO THEIR INACTIVE (HIGH) LEVEL.

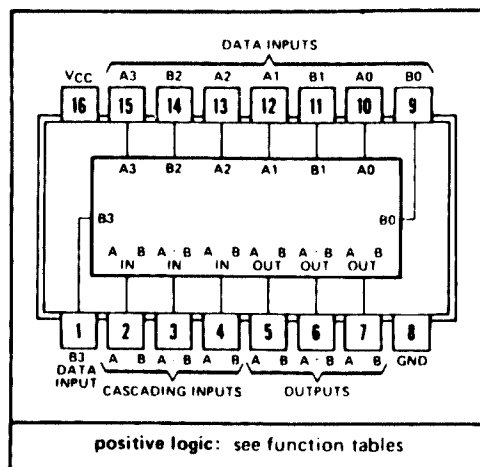
†FOR LATCHES WITH DOUBLE \bar{S} INPUTS:

H = BOTH \bar{S} INPUTS HIGH

L = ONE OR BOTH \bar{S} INPUTS LOW

PIN 16 = +5V (V_{CC})

PIN 8 = GND



FUNCTION TABLES

COMPARING INPUTS				CASCADING INPUTS			OUTPUTS		
A3, B3	A2, B2	A1, B1	A0, B0	A > B	A < B	A = B	A > B	A < B	A = B
A3 > B3	X	X	X	X	X	X	H	L	L
A3 < B3	X	X	X	X	X	X	L	H	L
A3 = B3	A2 > B2	X	X	X	X	X	H	L	L
A3 = B3	A2 < B2	X	X	X	X	X	L	H	L
A3 = B3	A2 = B2	A1 > B1	X	X	X	X	H	L	L
A3 = B3	A2 = B2	A1 < B1	X	X	X	X	L	H	L
A3 = B3	A2 = B2	A1 = B1	A0 > B0	X	X	X	H	L	L
A3 = B3	A2 = B2	A1 = B1	A0 < B0	X	X	X	L	H	L
A3 = B3	A2 = B2	A1 = B1	A0 = B0	H	L	L	H	L	L
A3 = B3	A2 = B2	A1 = B1	A0 = B0	L	H	L	L	H	L
A3 = B3	A2 = B2	A1 = B1	A0 = B0	L	L	H	L	L	H

'85, 'S85

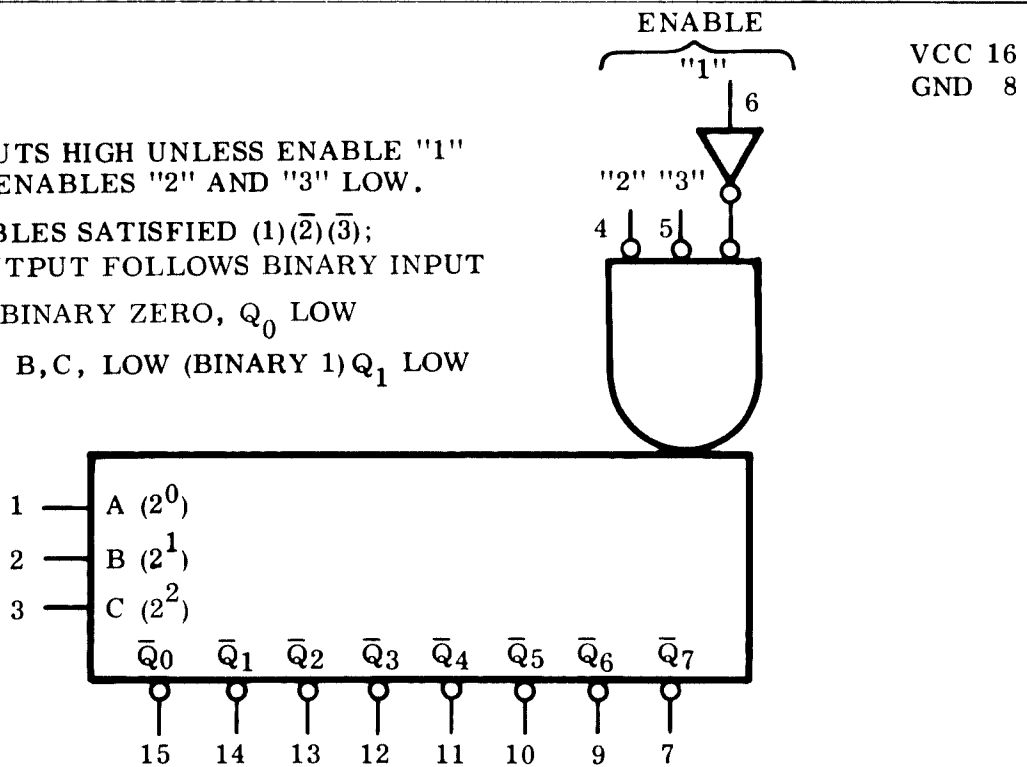
A3 > B3	A2 > B2	A1 = B1	A0 = B0	X	X	H	L	L	H
A3 = B3	A2 = B2	A1 = B1	A0 = B0	H	H	L	L	L	L
A3 = B3	A2 = B2	A1 = B1	A0 = B0	L	L	L	H	H	L

TEXAS INSTR
SN 74S138N
SN 74LS138N

AMPEX
587-151
587-279

3 TO 8 LINE DECODER/MULTIPLEXER

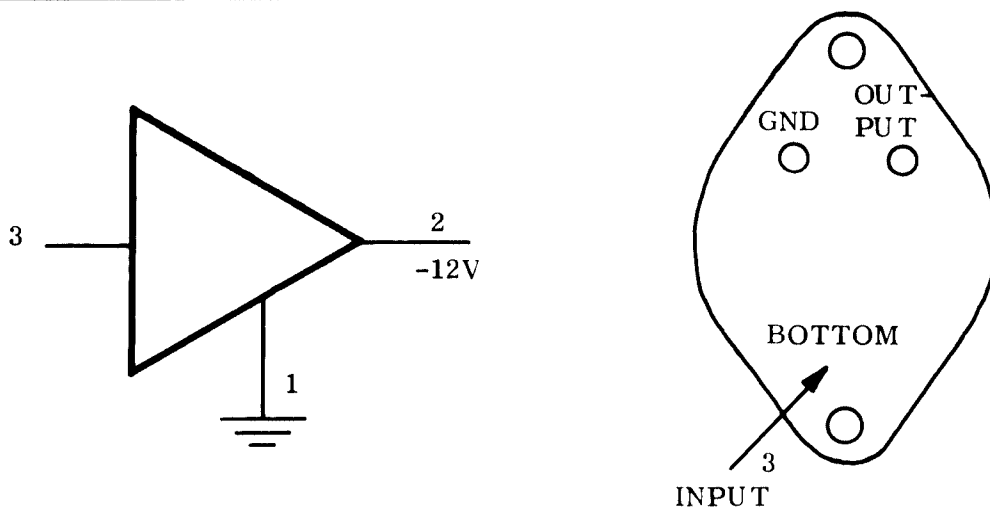
1. ALL OUTPUTS HIGH UNLESS ENABLE "1" HIGH AND ENABLES "2" AND "3" LOW.
2. WITH ENABLES SATISFIED (1)($\bar{2}$)($\bar{3}$);
 - LOW OUTPUT FOLLOWS BINARY INPUT
 - A,B,C: BINARY ZERO, Q_0 LOW
 - A HIGH, B,C, LOW (BINARY 1) Q_1 LOW



MOTOROLA
MC 7912 CK

AMPEX
587-299

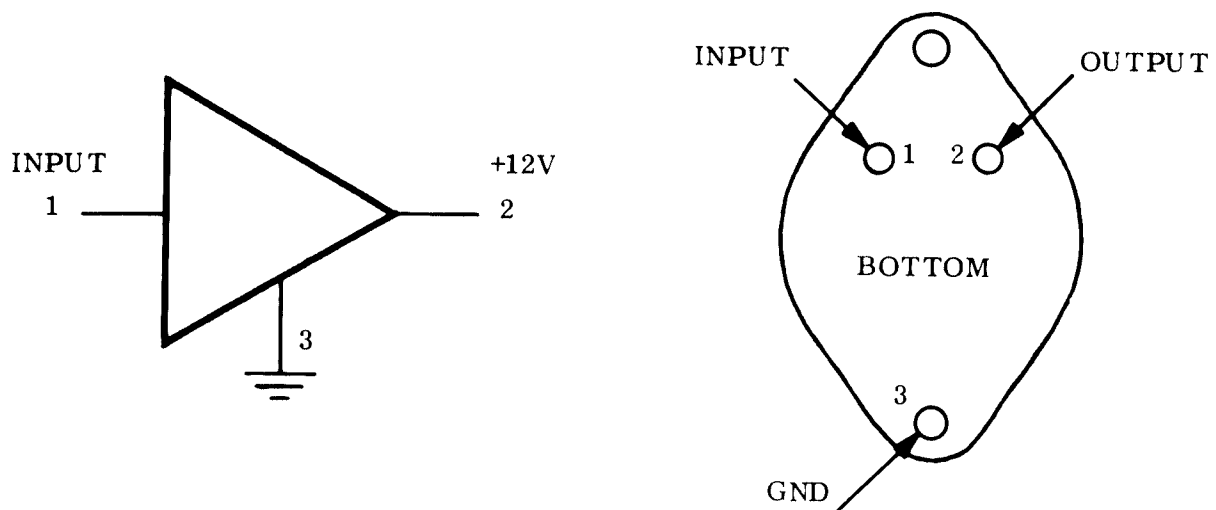
-12V REGULATOR



MOTOROLA
MC 7812 CK

AMPEX
587-300

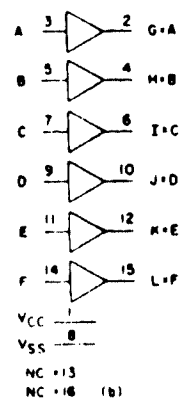
12V+ REG.



RCA
CD4050BE

AMPEX
587-303

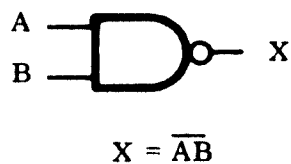
COS/MOS HEX BUFFER/CONVERTERS



RCA
4011PC
CD 4011AE

AMPEX
587-909
587-319

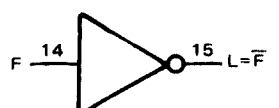
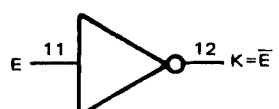
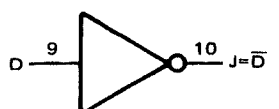
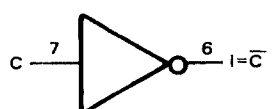
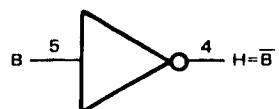
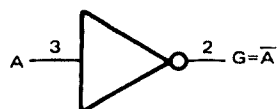
2 INPUT NAND GATE



$$X = \overline{AB}$$

A	B	X
1	2	3
4	5	6
8	9	10
12	13	11

VDD 14
VSS 7

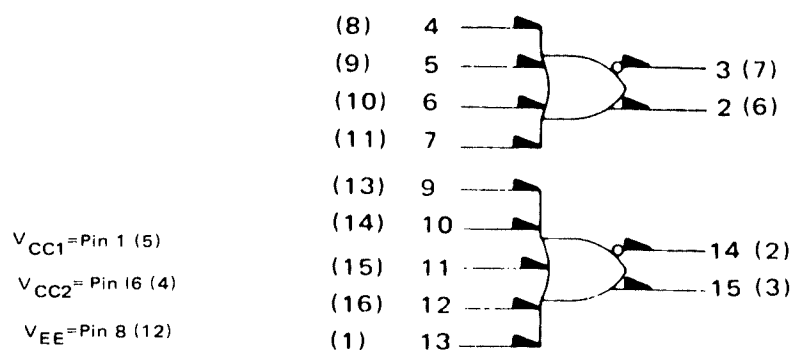


PIN 1 = V_{cc}
PIN 8 = V_{ss}
PIN 13 = NC
PIN 16 = NC

MOTOROLA
MC10109L

AMPEX
587-325

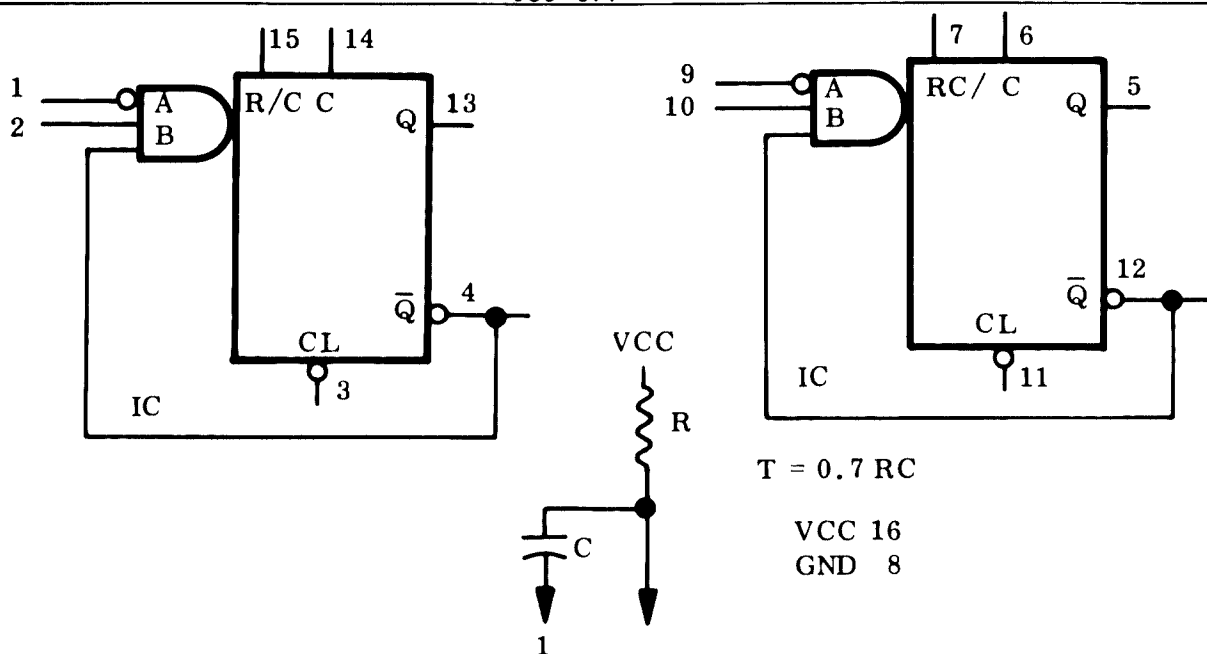
DUAL 4-5 INPUT
OR/NOR GATE



TEXAS INST
SN74221

AMPEX
587-431
587-537
589-377

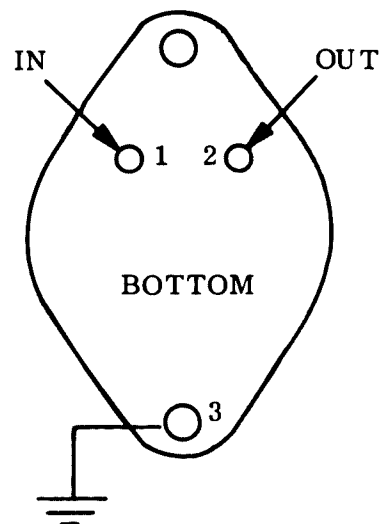
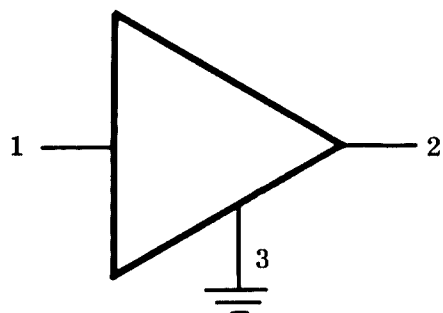
NON-RETRIGGERABLE ONE SHOT
SCHMITT TRIGGER INPUTS



FAIRCHILD
78L05AWC
7805VC

AMPEX
587-771
587-438

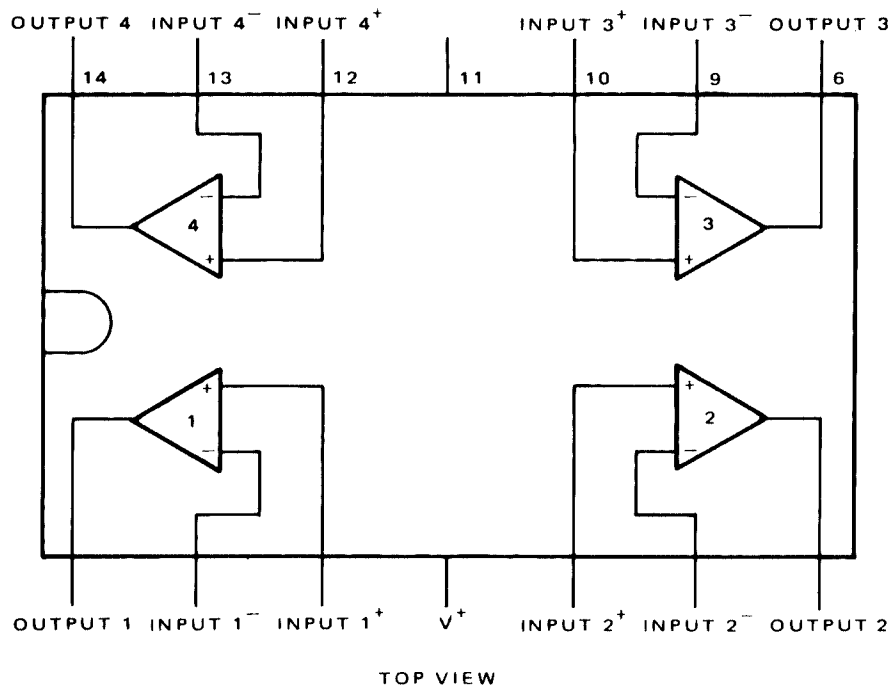
VOLT REG. 5V



NATIONAL SEMICONDUCTOR
LM 324

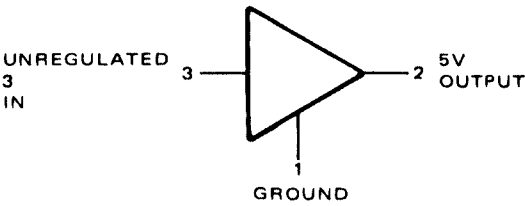
AMPEX
587-458

QUAD
OPERATIONAL
AMPLIFIER

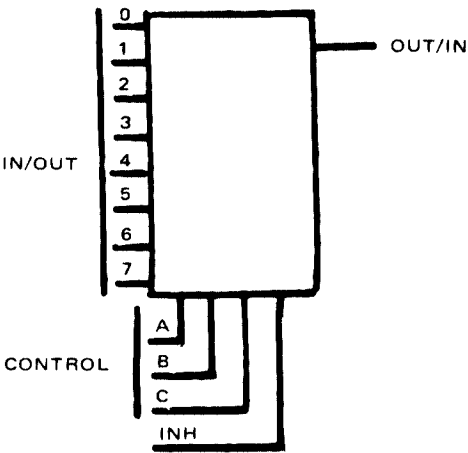


PIN 4 = V_{CC}
PIN 11 = GND

MOTOROLA MC7905CP	AMPEX 587-466	5-VOLT REGULATOR
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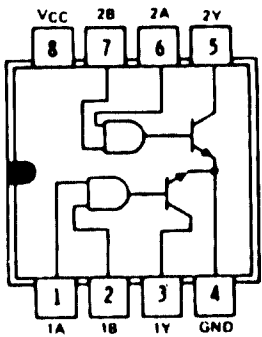
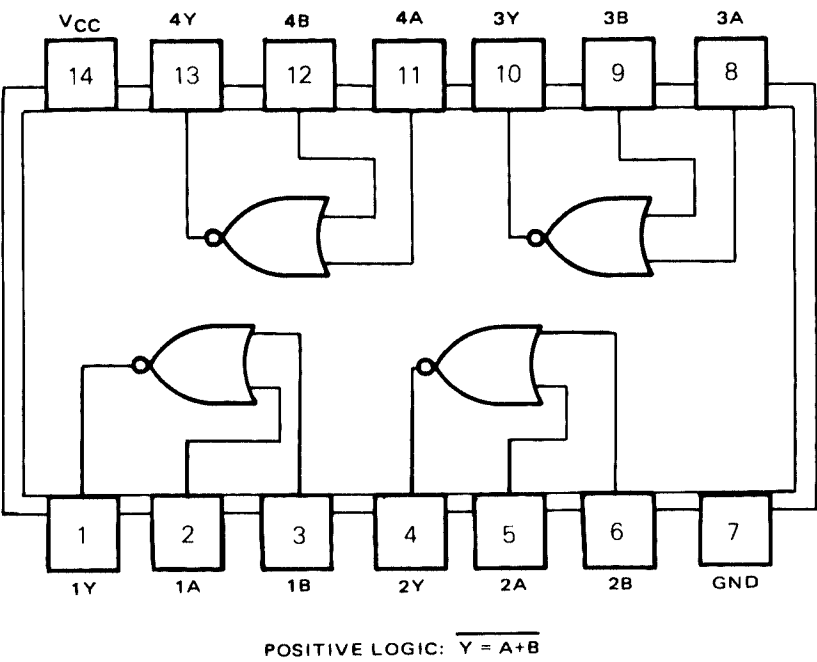
RCA CD4051B	AMPEX 587-470	COS/MOS ANALOG MULTIPLEXERS/ DEMULTIPLEXERS
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TRUTH TABLE

INPUT STATES				"ON" CHANNELS		
INHIBIT	C	B	A	CD4051A	CD4052A	CD4053A
0	0	0	0	0	0x, 0y	cx, bx, ax
0	0	0	1	1	1x, 1y	cx, bx, ay
0	0	1	0	2	2x, 2y	cx, by, ax
0	0	1	1	3	3x, 3y	cx, by, ay
0	1	0	0	4		cy, bx, ax
0	1	0	1	5		cy, bx, ay
0	1	1	0	6		cy, by, ax
0	1	1	1	7		cy, by, ay
1	*	*	*	NONE	NONE	NONE

* = Don't care condition



FUNCTION TABLE		
A	B	Y
L	L	H (off state)
L	H	H (off state)
H	L	H (off state)
H	H	L (on state)

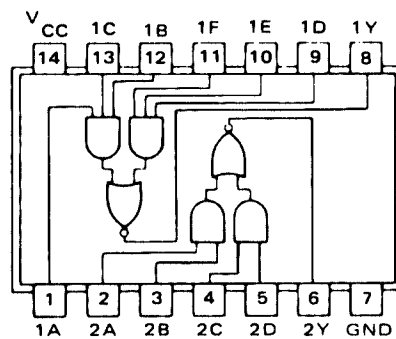
H = high level, L = low level

Positive Logic $Y = \overline{A \cdot B}$

TEXAS INSTRUMENTS
SN74LS51N

AMPEX
587-514

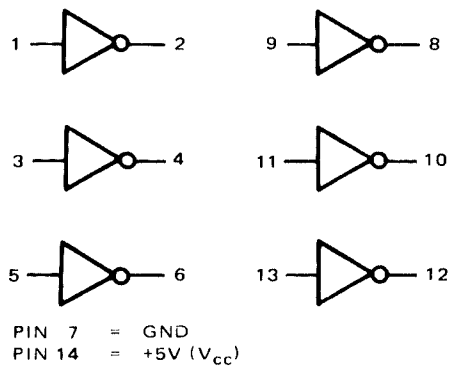
DUAL 2-WIDE 2-INPUT
AND-OR-INVERT GATES



TEXAS INSTRUMENTS
SN 74H04N
SN 74LS04N

AMPEX
586-688
587-533

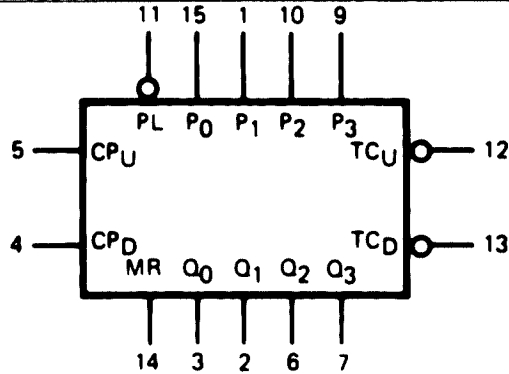
HEX
INVERTER



FAIRCHILD/T.I.
74LS193
SN74LS193N

AMPEX
587-536
587-833

PRESETTABLE 4-BIT/BINARY
UP/DOWN COUNTER

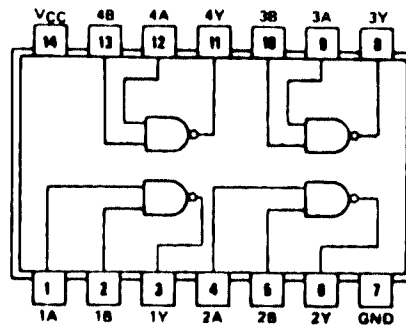


V_{CC} = Pin 16
GND = Pin 8

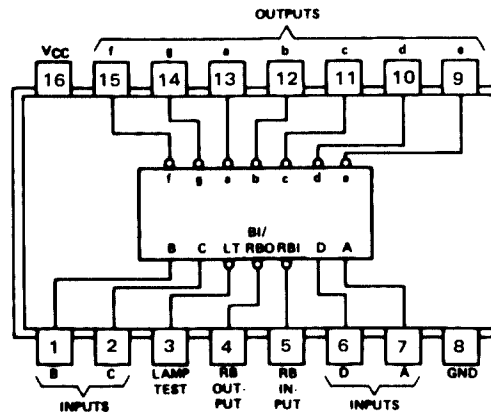
TEXAS INST
SN7426N

AMPEX
587-543

QUADRUPLE 2-INPUT HIGH-VOLTAGE
INTERFACE POSITIVE-NAND GATES



positive logic:
 $Y = \overline{AB}$



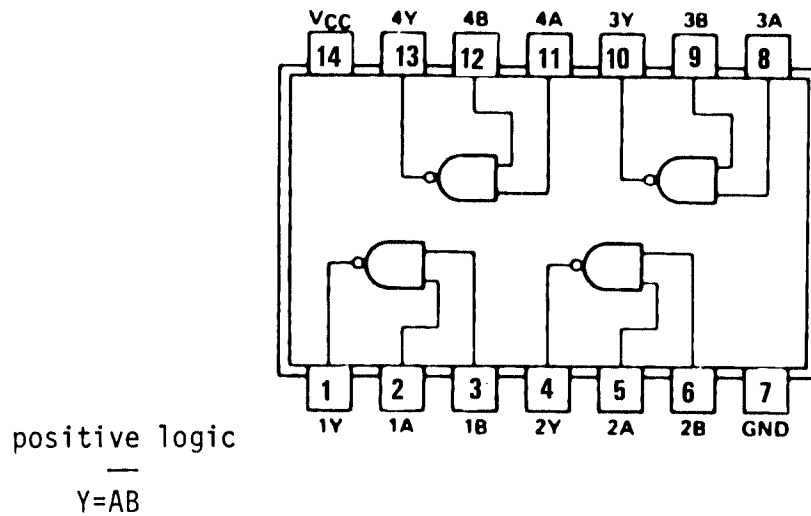
DECIMAL OR FUNCTION	INPUTS						BI/RBO†	OUTPUTS							NOTE
	LT	RBI	D	C	B	A		a	b	c	d	e	f	g	
0	H	H	L	L	L	L	H	ON	ON	ON	ON	ON	ON	OFF	1
1	H	X	L	L	L	H	H	OFF	ON	ON	OFF	OFF	OFF	OFF	
2	H	X	L	L	H	L	H	ON	ON	OFF	ON	ON	OFF	ON	
3	H	X	L	L	H	H	H	ON	ON	ON	ON	OFF	OFF	ON	
4	H	X	L	H	L	L	H	OFF	ON	ON	OFF	OFF	ON	ON	
5	H	X	L	H	L	H	H	ON	OFF	ON	ON	OFF	ON	ON	
6	H	X	L	H	H	L	H	OFF	OFF	ON	ON	ON	ON	ON	
7	H	X	L	H	H	H	H	ON	ON	ON	OFF	OFF	OFF	OFF	
8	H	X	H	L	L	L	H	ON	ON	ON	ON	ON	ON	ON	
9	H	X	H	L	L	H	H	ON	ON	ON	OFF	OFF	ON	ON	
10	H	X	H	L	H	L	H	OFF	OFF	OFF	ON	ON	OFF	ON	
11	H	X	H	L	H	H	H	OFF	OFF	ON	ON	OFF	OFF	ON	
12	H	X	H	H	L	L	H	OFF	ON	OFF	OFF	OFF	ON	ON	
13	H	X	H	H	L	H	H	ON	OFF	OFF	ON	OFF	ON	ON	
14	H	X	H	H	H	L	H	OFF	OFF	OFF	ON	ON	ON	ON	
15	H	X	H	H	H	H	H	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
BI	X	X	X	X	X	X	L	OFF	OFF	OFF	OFF	OFF	OFF	OFF	2
RBI	H	L	L	L	L	L	L	OFF	OFF	OFF	OFF	OFF	OFF	OFF	3
LT	L	X	X	X	X	X	H	ON	ON	ON	ON	ON	ON	ON	4

H = high level, L = low level, X = irrelevant

TEXAS INSTRUMENTS
SN54LS01W

AMPEX
587-581

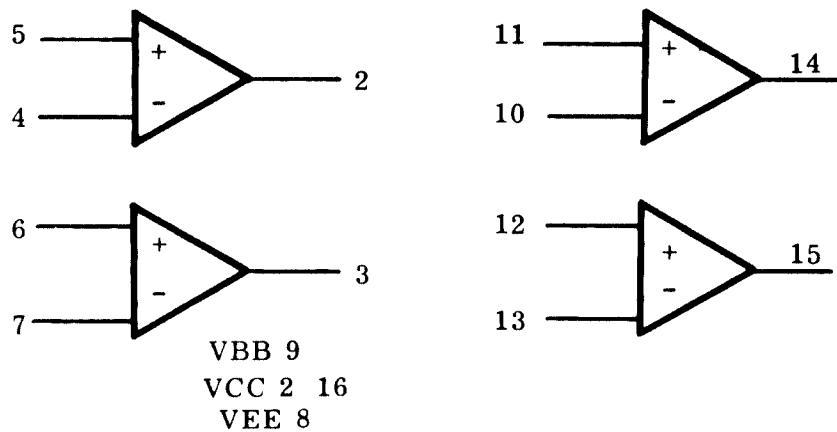
QUADRUPLE 2-INPUT
POSITIVE-NAND GATE
WITH OPEN-COLLECTOR OUTPUT



MOTOROLA
MC 10115 P

AMPEX
587-630

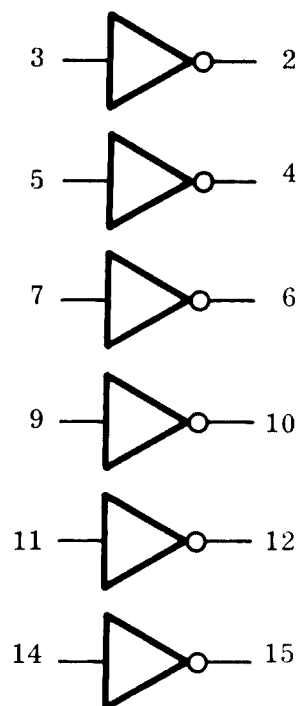
QUAD LINE RECEIVER



RCA
CD 4009AE

AMPEX
587-647

HEX INVERTER C-MOS



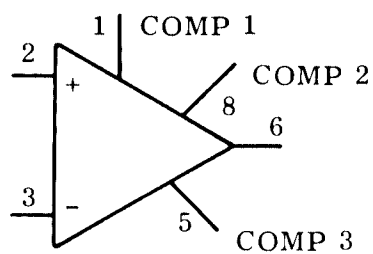
VDD 16
VCC 1
GND 8
VCC MUST BE EQUAL TO
OR LESS THAN VDD

$$X = \bar{A}$$

NATIONAL SEMI
LM318H
LM318N

AMPEX
587-478
587-656

OP AMP

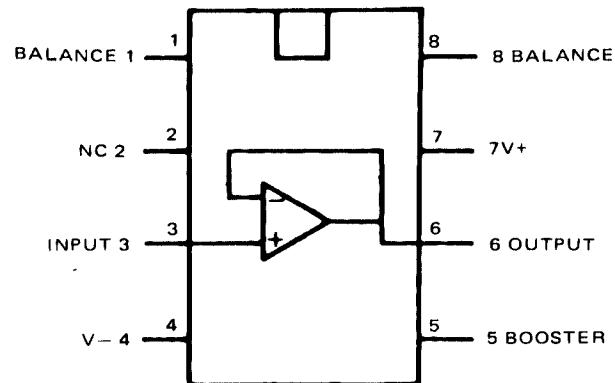


V⁺7 V⁻4(gnd)

NATIONAL SEMI
LM310N

AMPEX
587-657

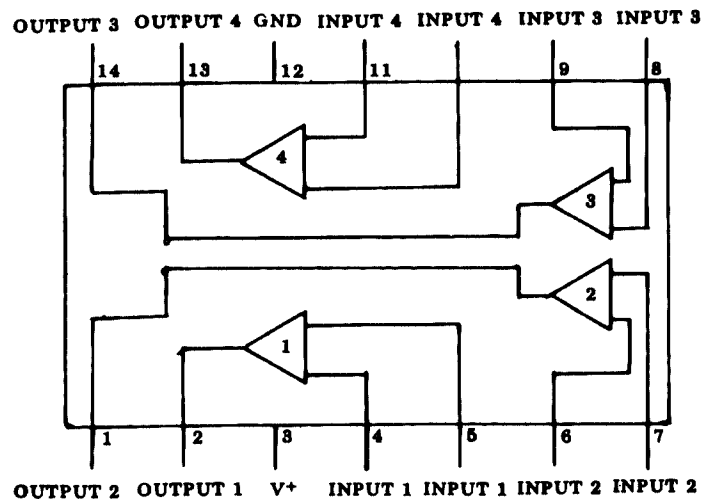
VOLTAGE FOLLOWER



NATIONAL SEMI
LM339M

AMPEX
587-660

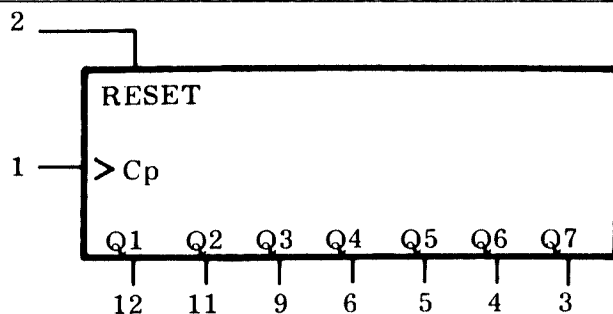
VOLTAGE COMPARATORS



RCA
CD 4024AE

AMPEX
587-677

7 STAGE BINARY COUNTER C-MOS

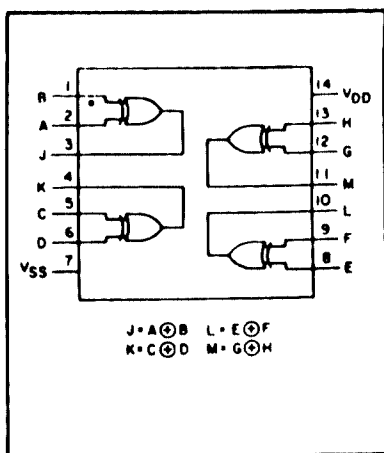


VDD 14
VSS 7

RCA
CD4030

AMPEX
587-678

COS/MOS QUAD EXCLUSIVE-OR GATE



TRUTH TABLE FOR ONE OF
FOUR IDENTICAL GATES

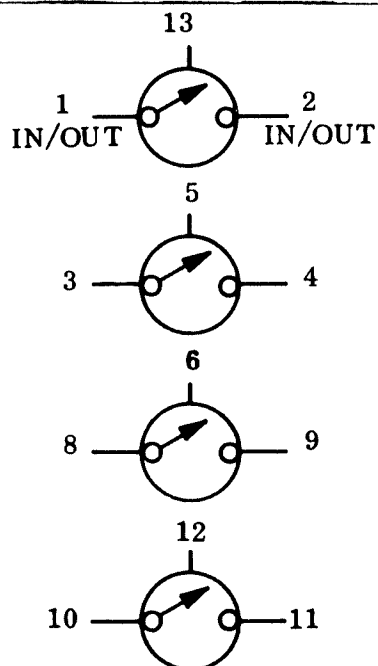
A	B	J
0	0	0
1	0	1
0	1	1
1	1	0

WHERE "1" = HIGH LEVEL
"0" = LOW LEVEL

RCA
CD 4066AE

AMPEX
587-680

QUAD BILATERAL SWITCH
C-MOS



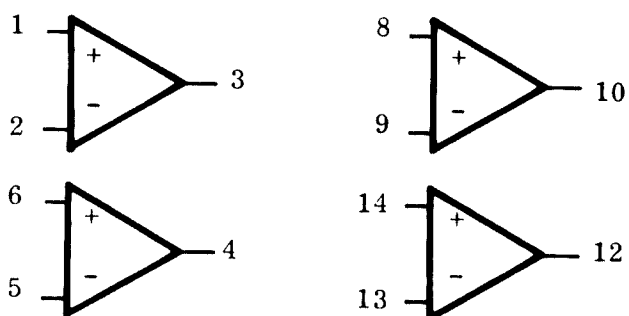
VDD 14
VSS 7

HIGH CLOSES SWITCH

RAYTHEON
RC 4136 DB

AMPEX
587-700

QUAD OP AMP

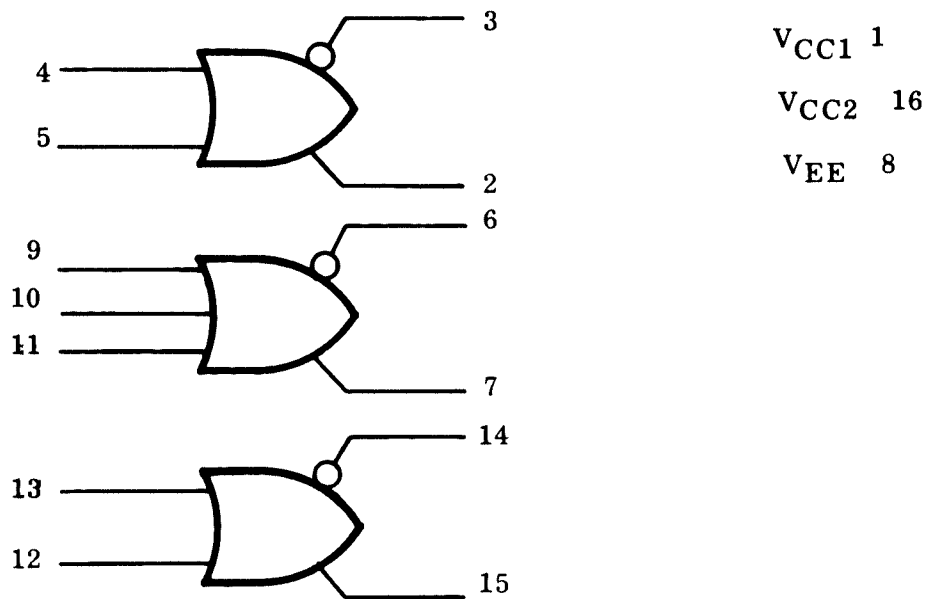


+V_{CC} 11
-V_{CC} 7

MOTOROLA
MC 10105 P

AMPEX
587-703

TRIPLE 2-3-2 INPUT OR/NOR
GATE ECL



RCA
CA3126Q

AMPEX
587-719

TV CHROMA PROCESSOR

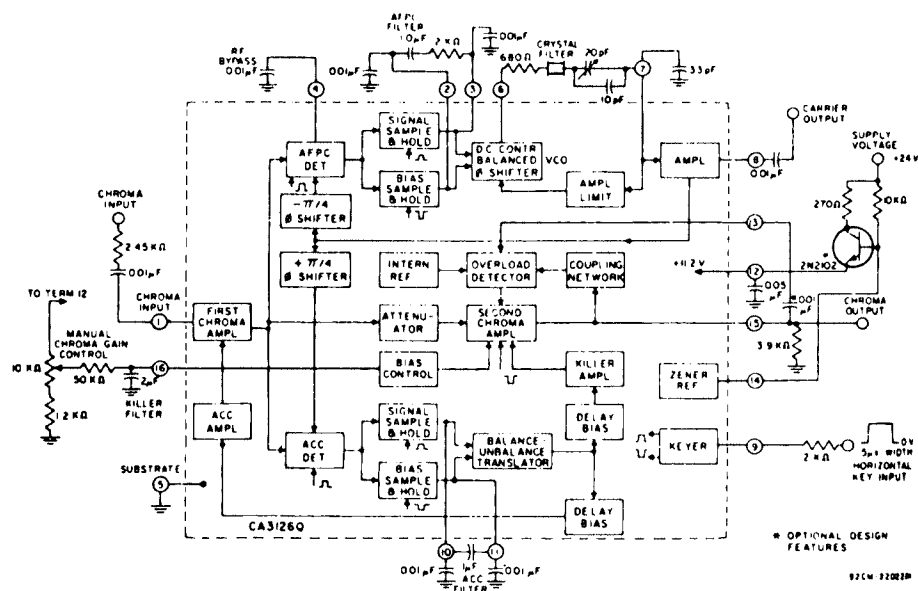
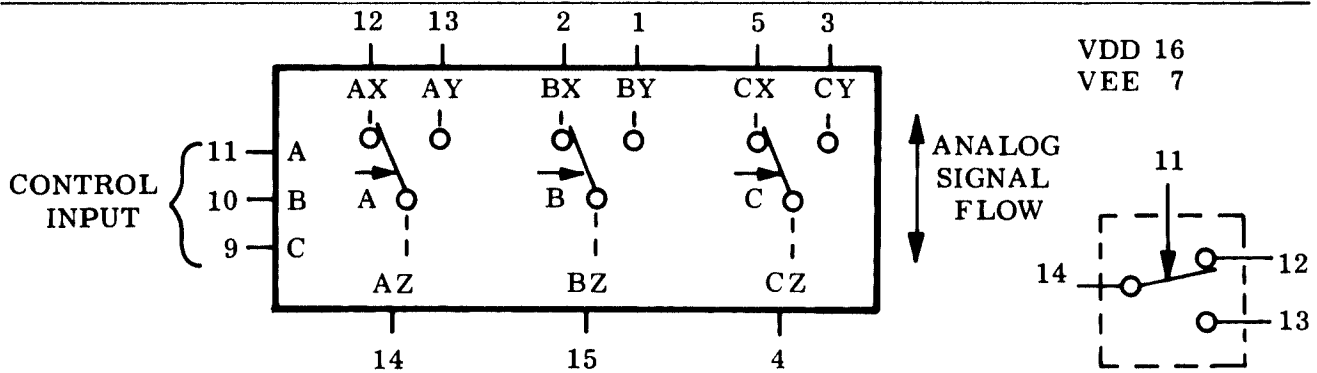
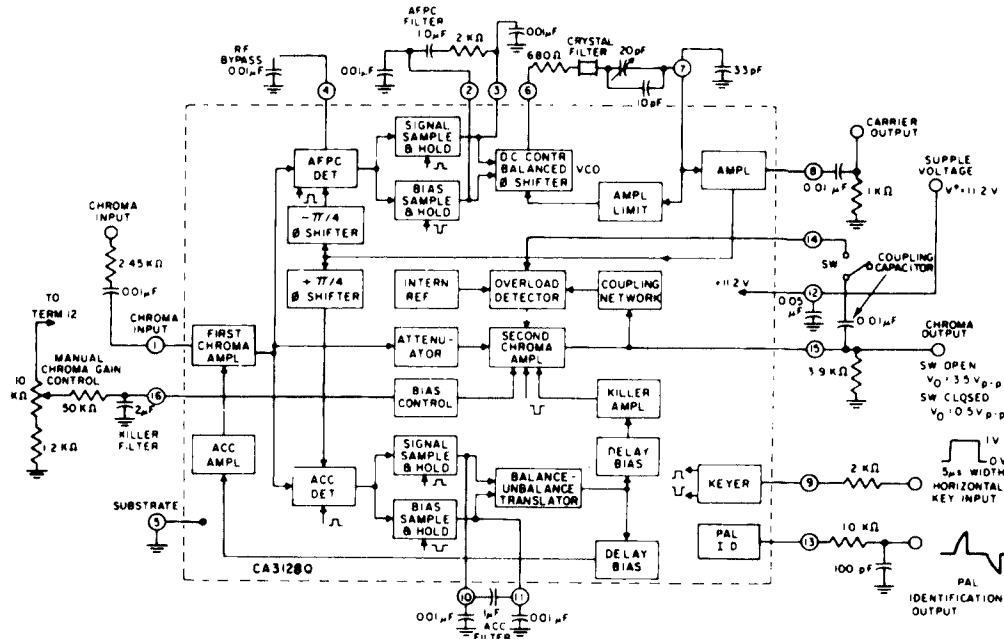


Fig. 1—Block diagram of CA3126Q TV Chroma Processor.



HIGH ON A, B, OR C CONTROL UNIT CONNECTS
A, B, OR C_Y TO A, B, OR C_Z BILATERALLY.

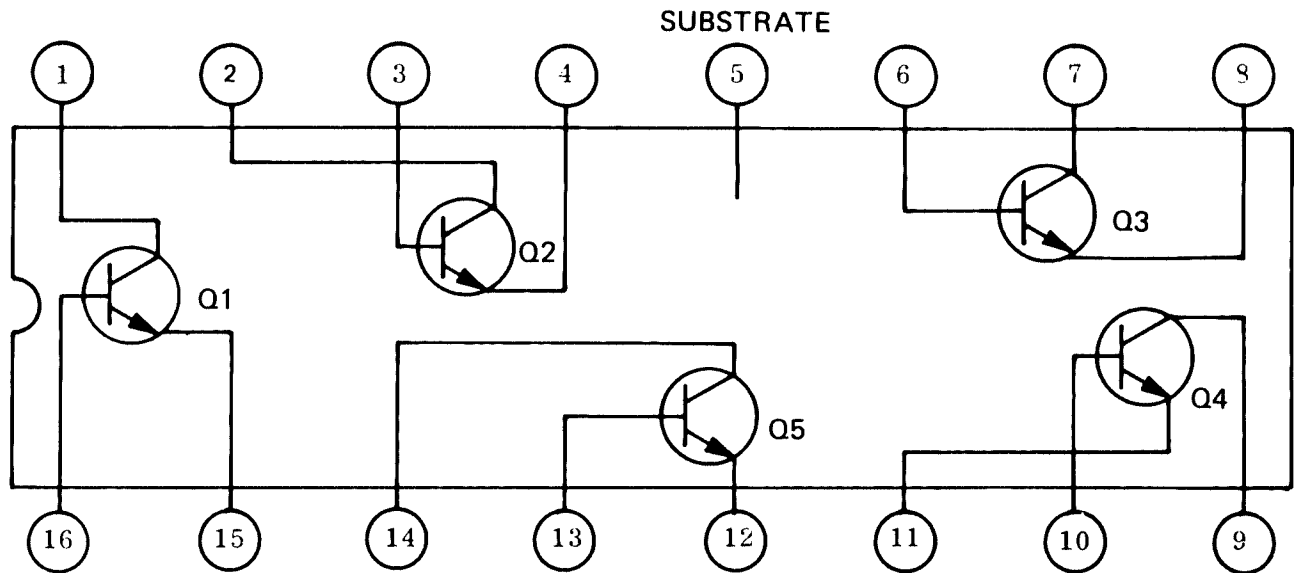
LOW ON CONTROL INPUTS CONNECT AX - AZ, BX - BZ, CX - CZ
BILATERALLY.

TYPICAL
SCHEMATIC

RCA
CA3083

AMPEX
587-749

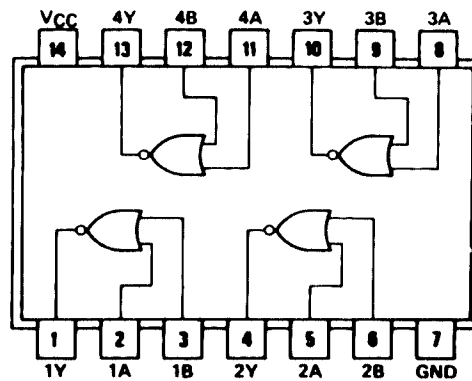
NPN TRANSISTOR ARRAY



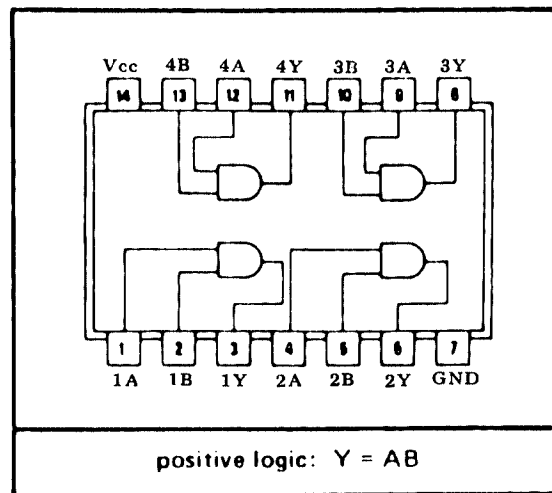
FAIRCHILD
74LS02

AMPEX
587-750

QUADRUPLE 2-INPUT POSITIVE-NOR
GATE



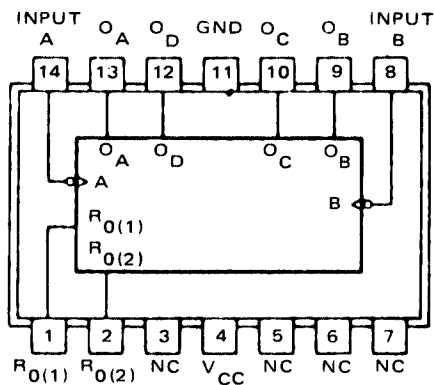
$$Y = \overline{A+B}$$



TEXAS INSTRUMENTS
SN7493

AMPEX
587-756

DECADE, DIVIDE-BY-TWELVE, AND
BINARY COUNTER



COUNT	OUTPUT			
	Q _D	Q _C	Q _B	Q _A
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	L	H	L	H
6	L	H	H	L
7	L	H	H	H
8	H	L	L	L
9	H	L	L	H
10	H	L	H	L
11	H	L	H	H
12	H	H	L	L
13	H	H	L	H
14	H	H	H	L
15	H	H	H	H

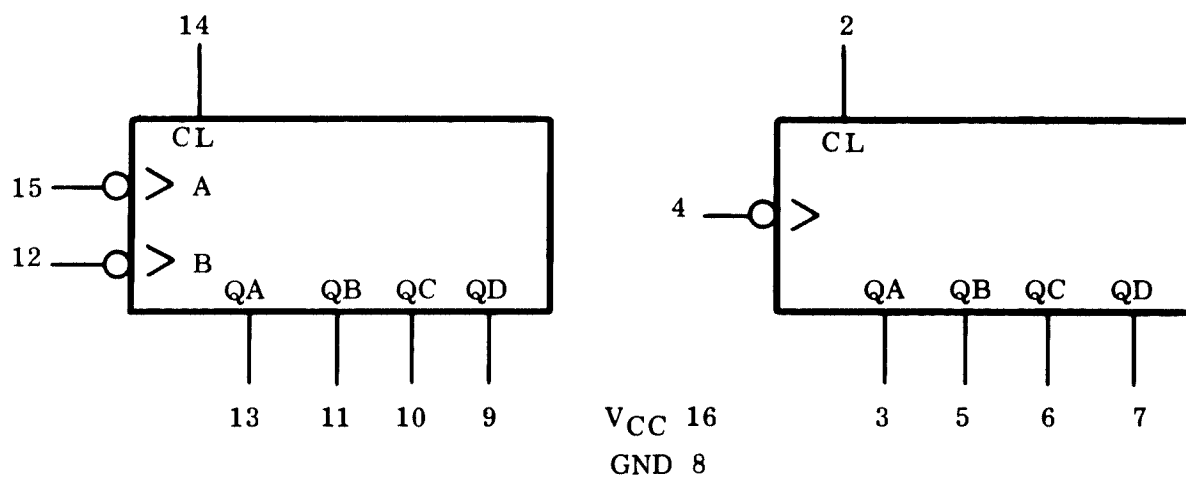
RESET/COUNT FUNCTION TABLE

RESET INPUTS		OUTPUT			
R ₀ (1)	R ₀ (2)	Q _D	Q _C	Q _B	Q _A
H	H	L	L	L	L
L	X	COUNT			
X	L	COUNT			

TEXAS INST
SN 74390 N

AMPEX
587-759

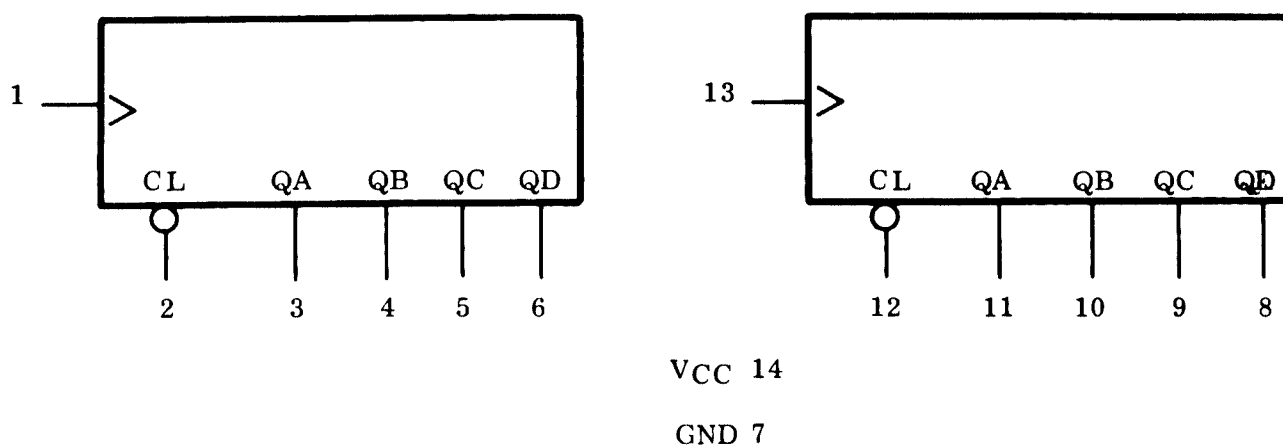
DUAL COUNTER $\div 2, \div 5$

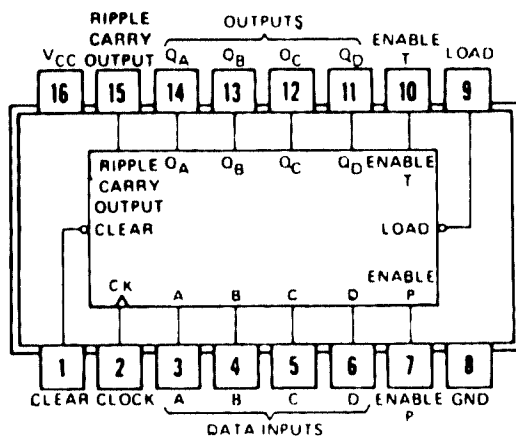
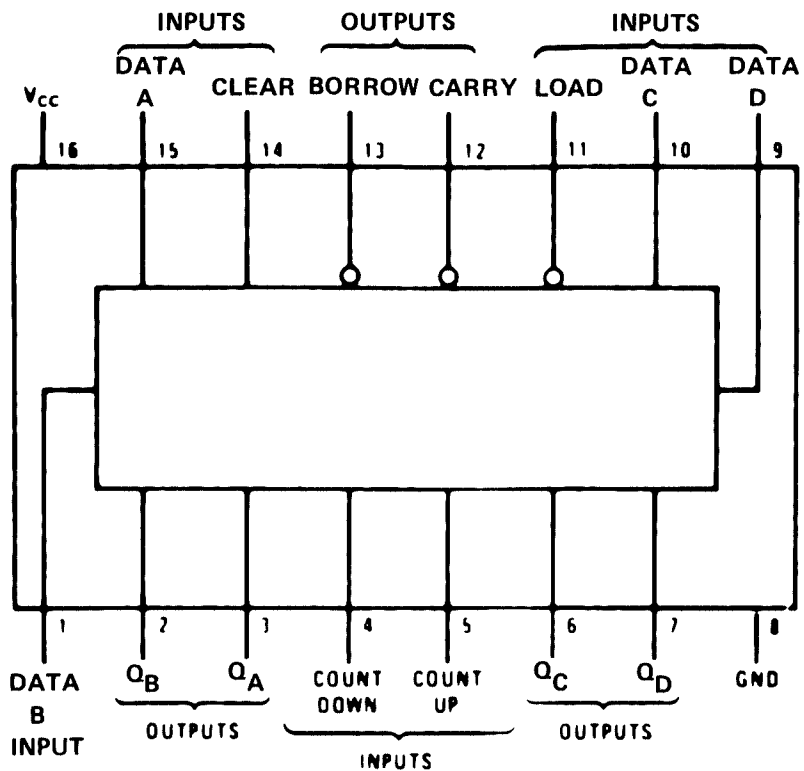


TEXAS INST
SN 74393 N

AMPEX
587-761

DUAL 4 BIT COUNTER, BINARY

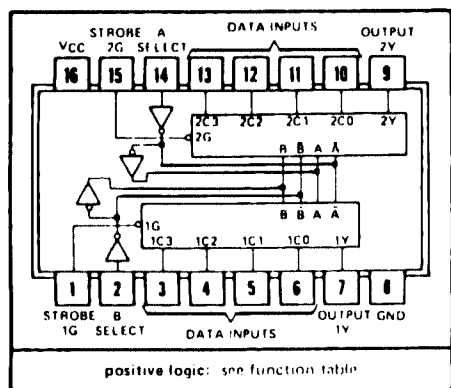




TEXAS INST
SN74LS153N

AMPEX
587-777

DUAL 4-LINE-TO-1-LINE DATA
SELECTORS/MULTIPLEXERS



FUNCTION TABLE

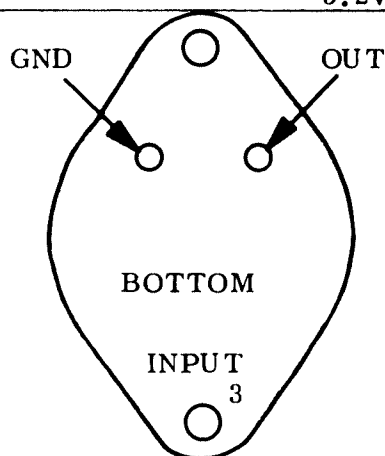
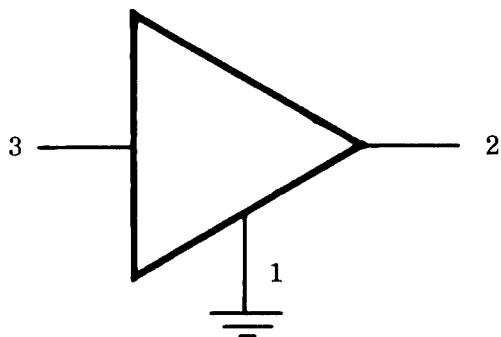
SELECT INPUTS		DATA INPUTS				STROBE	OUTPUT
B	A	C0	C1	C2	C3	G	Y
X	X	X	X	X	X	H	L
L	L	L	X	X	X	L	L
L	L	H	X	X	X	L	H
L	H	X	L	X	X	L	L
L	H	X	H	X	X	L	H
H	L	X	X	L	X	L	L
H	L	X	X	H	X	L	H
H	H	X	X	X	L	L	L
H	H	X	X	X	H	L	H

Select inputs A and B are common to both sections.
H = high level, L = low level, X = irrelevant

MOTOROLA
MC 7905.2CP

AMPEX
587-779

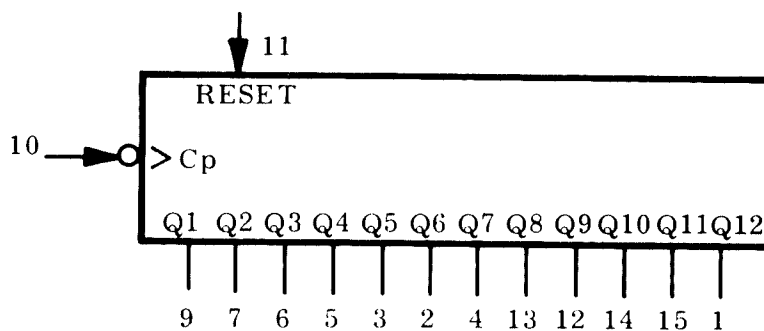
-5.2V REGULATOR



RCA
CD 4040AE

AMPEX
587-782

12 STAGE BINARY COUNTER

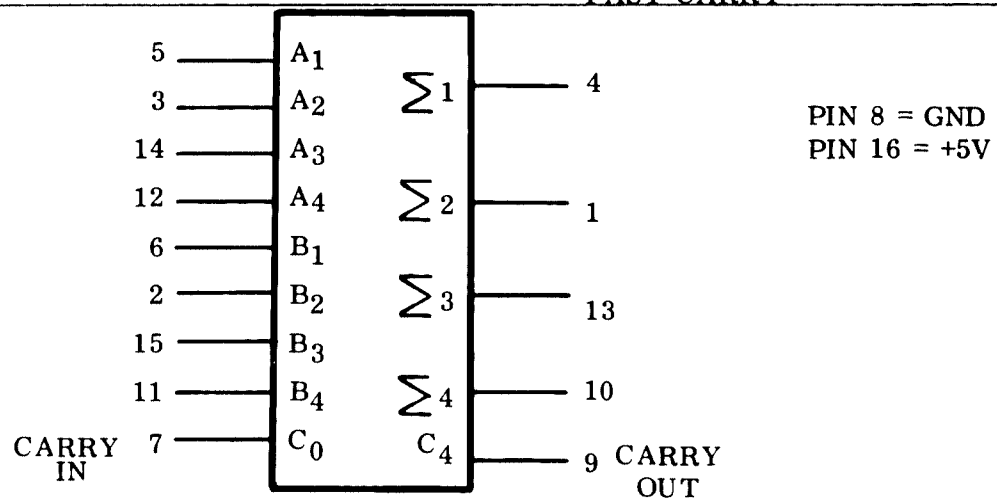


VDD 16
VSS 8

TEXAS INST
SN 74LS283N
SN 74283

AMPEX
587-814
587-495

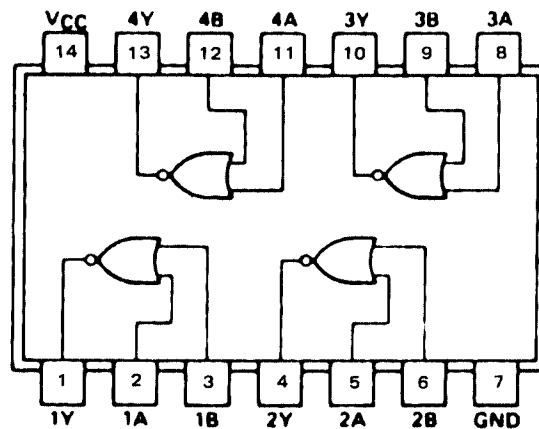
4 BIT BINARY ADDER WITH
FAST CARRY

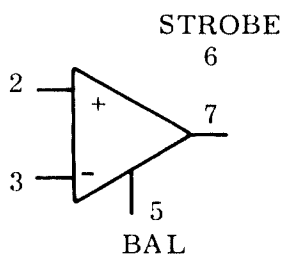


TEXAS INST
SN74LS02N

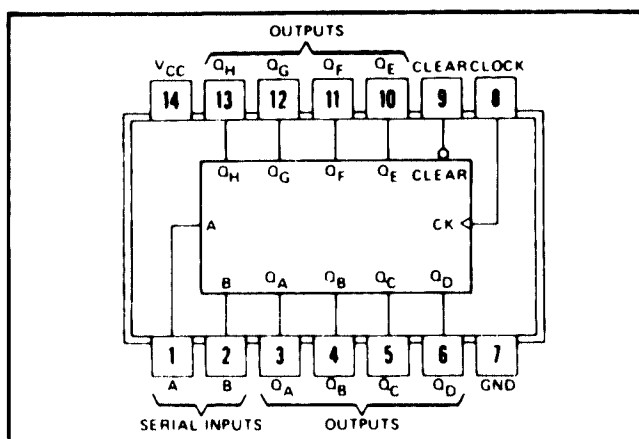
AMPEX
587-870

QUADRUPLE 2-INPUT POSITIVE-NOR
GATES





V + 8
V - 4
Gnd 1



FUNCTION TABLE

INPUTS				OUTPUTS		
CLEAR	CLOCK	A	B	QA	QB	QH
L	X	X	X	L	L	L
H	L	X	X	QA0	QB0	QH0
H	↑	H	H	H	QAn	QGn
H	↑	L	X	L	QAn	QGn
H	↑	X	L	L	QAn	QGn

H = high level (steady state), L = low level (steady state)

X = irrelevant (any input, including transitions)

↑ = transition from low to high level.

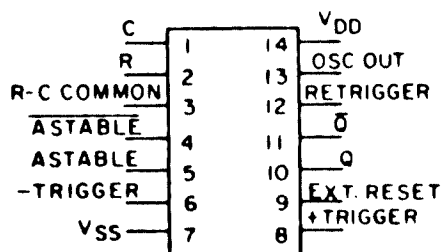
QA0, QB0, QH0 = the level of QA, QB, or QH, respectively, before the indicated steady state input conditions were established.

QAn, QGn = the level of QA or QG before the most-recent ↑ transition of the clock, indicates a one-bit shift.

RCA
CD4047AE

AMPEX
587-910

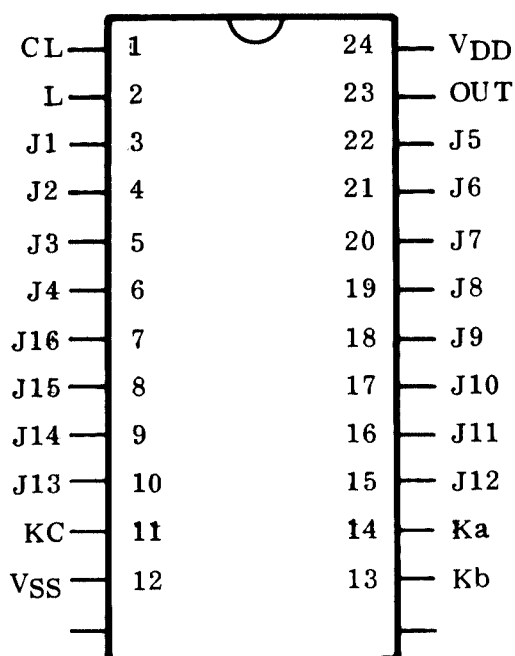
MONOSTABLE/
ASTABLE MULTIVIBRATOR



RCA
CD 4059 AD

AMPEX
587-933

C-MOS PROGRAMMABLE DIVIDE BY
N COUNTER

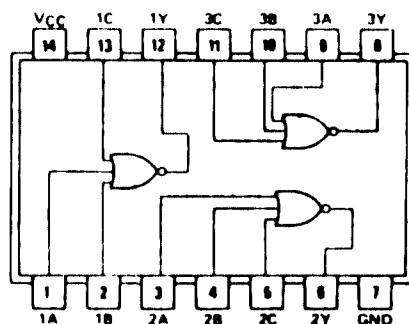


÷ 10 Ka, Kb High
Kc Low

TEXAS INST
SN74LS27N

AMPEX
587-952

TRIPLE 3-INPUT POSITIVE-NOR GATES

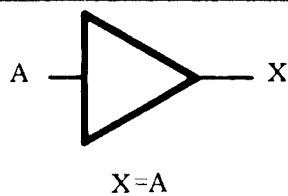


positive logic:
 $Y = A+B+C$

RCA
CD 4010AF

AMPEX
587-959

HEX CONVERTER



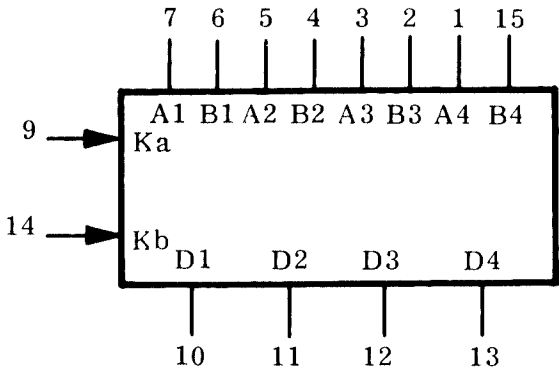
A	X
3	2
5	4
7	6
9	10
11	12
14	15

VCC 1
VDD 16
GND 8

RCA
4019PC
CD 4019AE

AMPEX
587-990
587-960

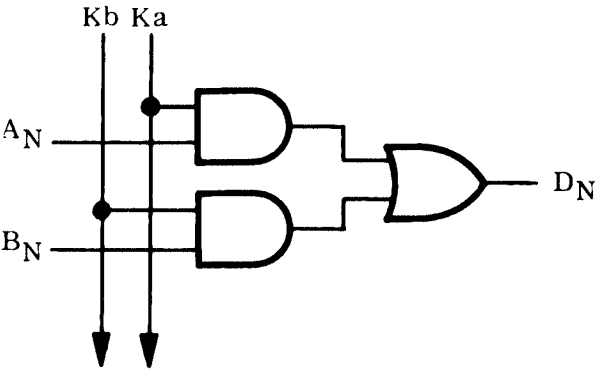
QUAD AND/OR SELECT



VDD 16
VSS 8

LOGIC LIST

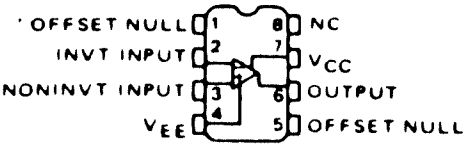
KA	KB	OUTPUT FOLLOWS
H	L	A
L	H	B
L	L	LOW



MOTOROLA
MC1741SC

AMPEX
587-993

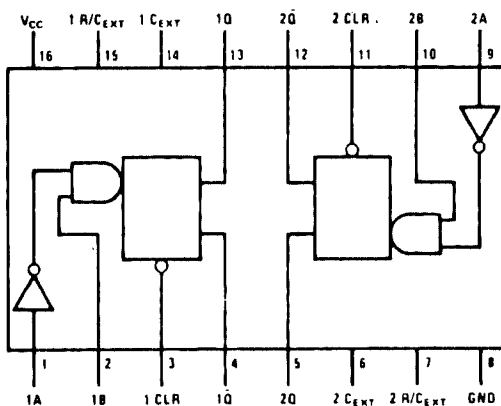
OPERATIONAL AMPLIFIER



MOTOROLA
74C221

AMPEX
589-019

DUAL MONOSTABLE MULTIVIBRATOR



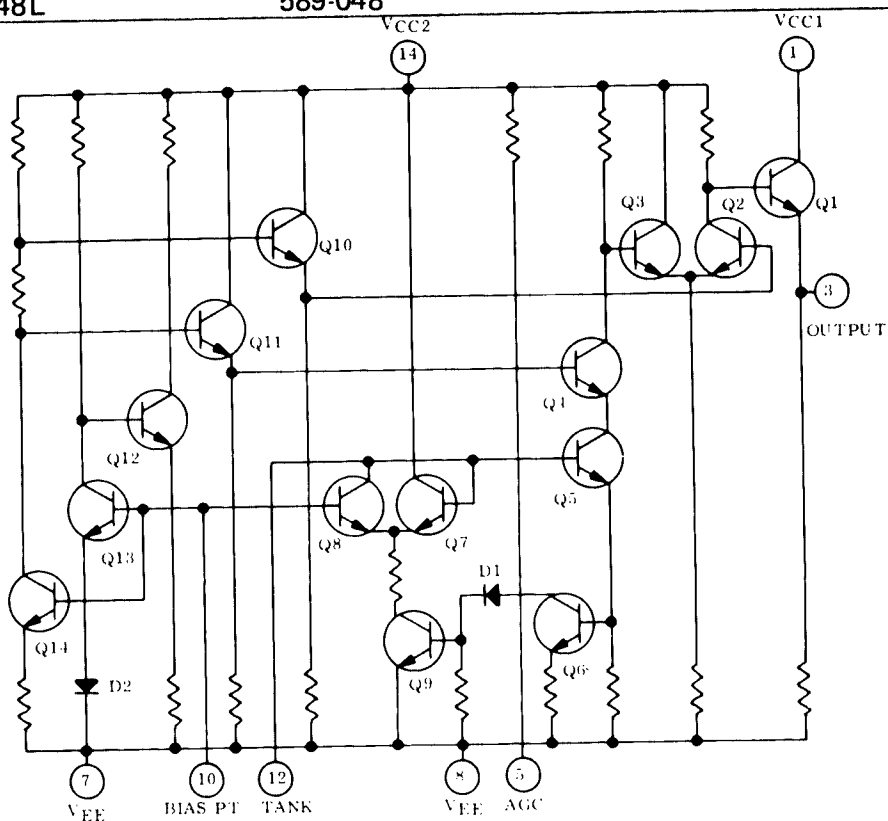
INPUTS			OUTPUTS	
CLEAR	A	B	Q	\bar{Q}
L	X	X	L	H
X	H	X	L	H
X	X	L	L	H
H	L	\uparrow	\square	\square
H	\downarrow	H	\square	\square

H = High level
L = Low level
 \uparrow = Transition from low to high
 \downarrow = Transition from high to low
 \square = One high level pulse
 \square = One low level pulse
X = Irrelevant

MOTOROLA
MC1648L

AMPEX
589-048

MECL MULTIVIBRATOR

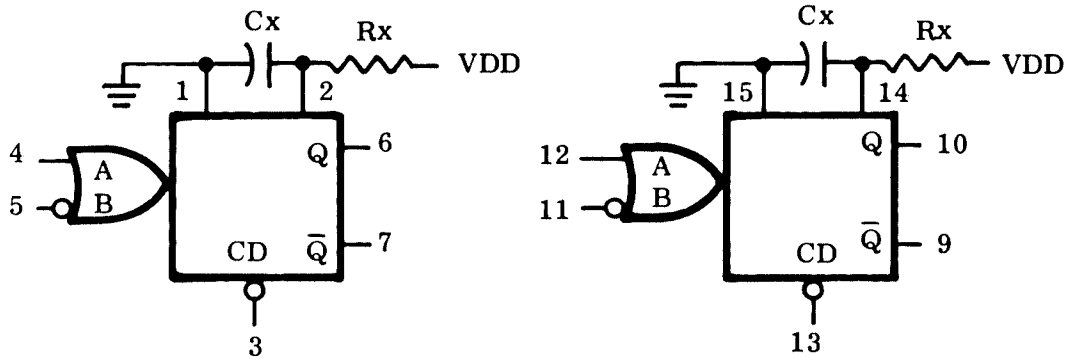


MOTOROLA
MC 14528 BCP
McMos

AMPEX
589-051

DUAL MONOSTABLE
MULTIVIBRATOR RETRIGGERABLE

VSS 8
VDD 16

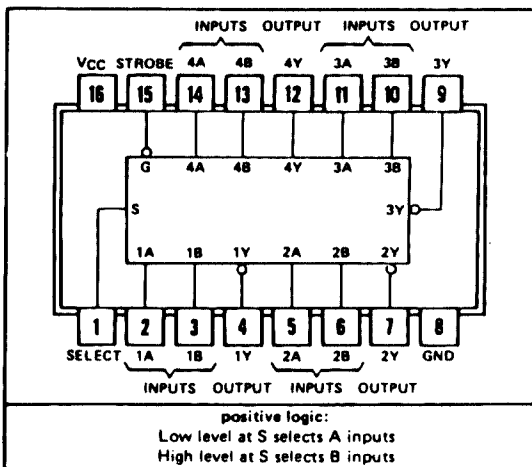


$$PW = 0.2 R_x C_x \ln (VDD - VSS)$$

TEXAS INST
SN74LS158N

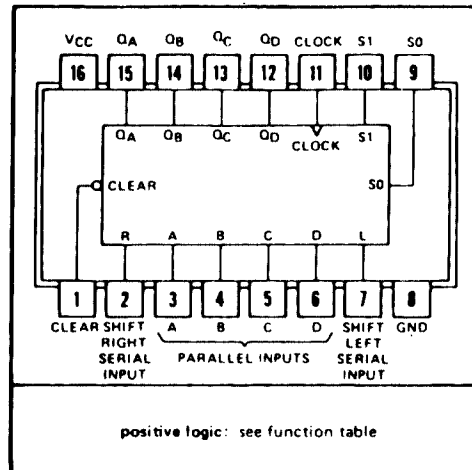
AMPEX
589-089

QUADRUPL 2-LINE-TO-1-LINE
DATA SELECTORS/MULTIPLEXERS



FUNCTION TABLE					
INPUTS				OUTPUT Y	
STROBE	SELECT	A	B	'157, 'L157, 'LS157, 'S157	'LS158 'S158
H	X	X	X	L	H
L	L	L	X	L	H
L	L	H	X	H	L
L	H	X	L	L	H
L	H	X	H	H	L

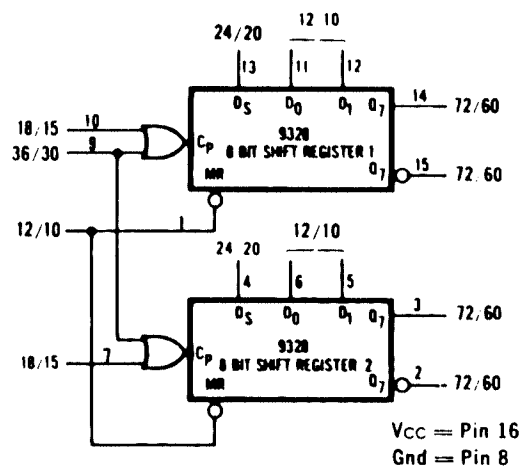
H = high level, L = low level, X = irrelevant

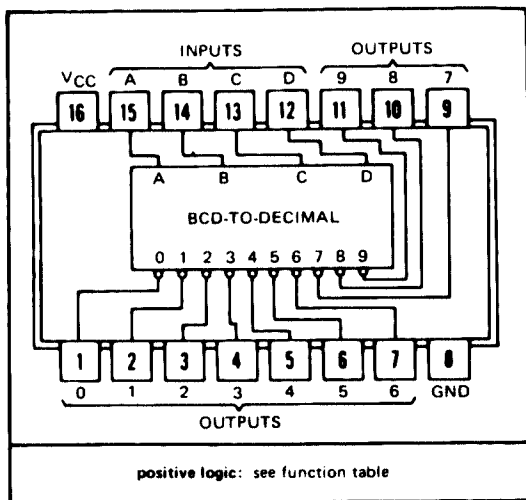


FUNCTION TABLE

CLEAR	MODE		CLOCK	INPUTS				OUTPUTS			
				SERIAL		PARALLEL		QA	QB	QC	QD
	S1	S0		LEFT	RIGHT	A	B				
L	X	X	X	X	X	X	X	L	L	L	L
H	X	X	L	X	X	X	X	QA0	QB0	QC0	QD0
H	H	H	↑	X	X	a	b	a	b	c	d
H	L	H	↑	X	H	X	X	H	QA _n	QB _n	QC _n
H	L	H	↑	X	L	X	X	L	QA _n	QB _n	QC _n
H	H	L	↑	H	X	X	X	QB _n	QC _n	QD _n	H
H	H	L	↑	L	X	X	X	QB _n	QC _n	QD _n	L
H	L	L	X	X	X	X	X	QA0	QB0	QC0	QD0

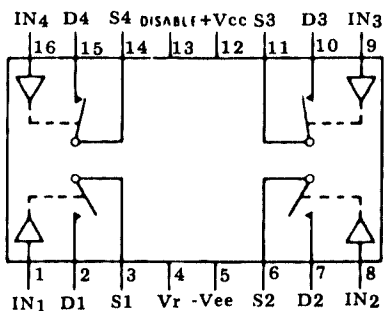
H = high level (steady state)
L = low level (steady state)
X = irrelevant (any input, including transitions)
↑ = transition from low to high level
a, b, c, d = the level of steady-state input at inputs A, B, C, or D, respectively.
QA0, QB0, QC0, QD0 = the level of QA, QB, QC, or QD, respectively, before the indicated steady state input conditions were established.
QA_n, QB_n, QC_n, QD_n = the level of QA, QB, QC, or QD, respectively, before the most-recent ↑ transition of the clock.





FUNCTION TABLE											
NO.	INPUTS				OUTPUTS						
	D	C	B	A	0	1	2	3	4	5	6
0	L	L	L	L	L	H	H	H	H	H	H
1	L	L	L	H	H	L	H	H	H	H	H
2	L	L	H	L	H	H	L	H	H	H	H
3	L	L	H	H	H	H	H	L	H	H	H
4	L	H	L	L	H	H	H	H	L	H	H
5	L	H	L	H	H	H	H	H	H	L	H
6	L	H	H	L	H	H	H	H	H	H	L
7	L	H	H	H	H	H	H	H	H	H	L
8	H	L	L	L	H	H	H	H	H	H	L
9	H	L	L	H	H	H	H	H	H	H	L
INVALID	H	L	H	L	H	H	H	H	H	H	H
	H	L	H	H	H	H	H	H	H	H	H
	H	H	L	L	H	H	H	H	H	H	H
	H	H	L	H	H	H	H	H	H	H	H
	H	H	H	L	H	H	H	H	H	H	H

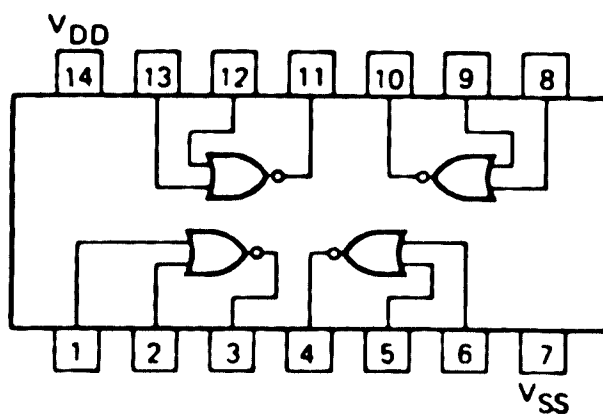
H = high level (off), L = low level (on)



FAIRCHILD
F4001

AMPEX
589-298

QUAD 2-INPUT NOR GATE

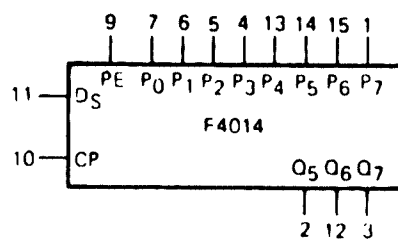


$V_{SS} = 0V$ $V_{DD} = 5-15V$

FAIRCHILD
F4014

AMPEX
589-299

8-BIT SHIFT REGISTER



$V_{DD} = \text{Pin } 16$

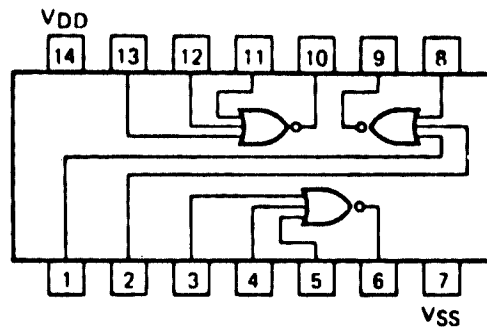
$V_{SS} = \text{Pin } 8$

FAIRCHILD
F4025

AMPEX
589-300

TRIPLE 3-INPUT NOR GATE

LOGIC AND CONNECTION DIAGRAM
DIP (TOP VIEW)

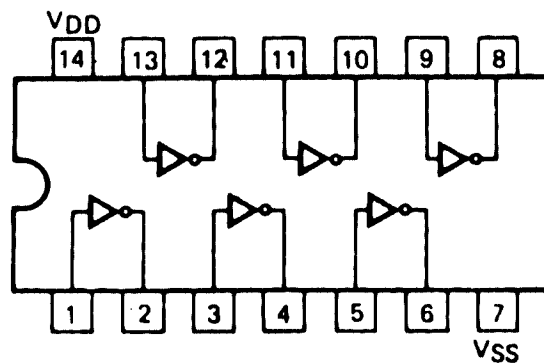


Vss = 0V Vdd = 5-15V

FAIRCHILD
F4069

AMPEX
589-301

HEX INVERTER

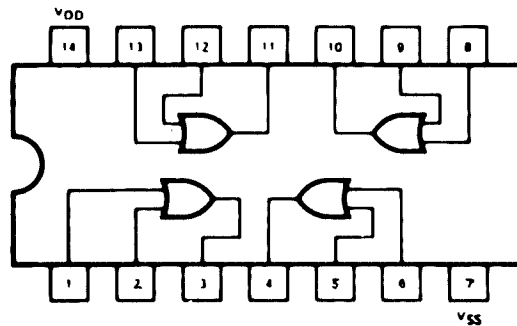


Vss = 0V Vdd = 5-15V

FAIRCHILD
F4071

AMPEX
589-302

QUAD 2-INPUT OR GATE

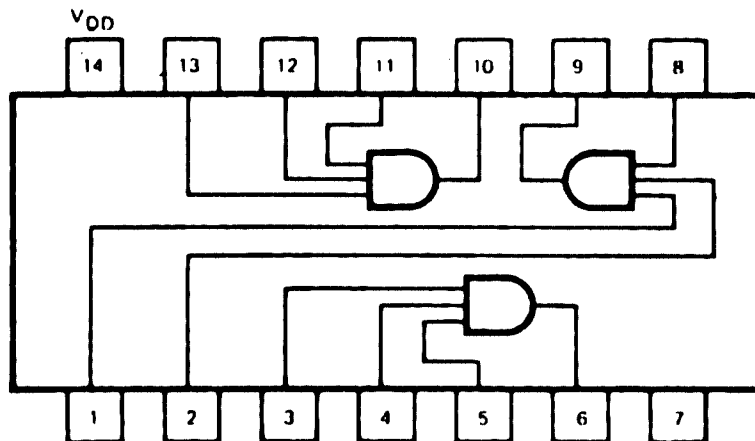


DC CHARACTERISTICS: V_{DD} as shown, $V_{SS} = 0\text{ V}$

FAIRCHILD
F4073

AMPEX
589-303

TRIPLE 3-INPUT AND GATE

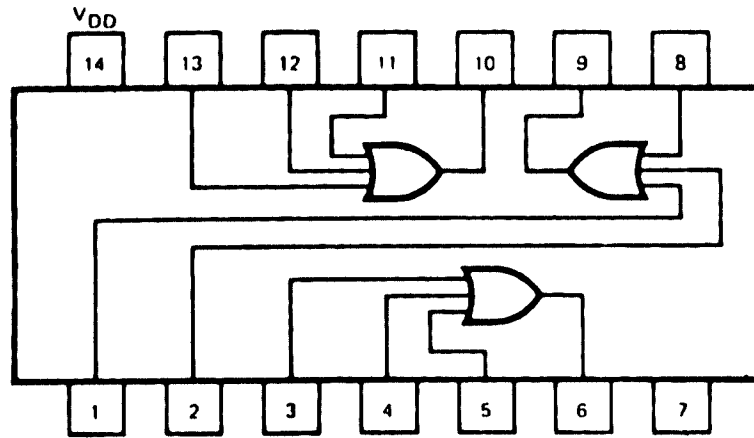


$V_{SS} = 0\text{ V}$ $V_{DD} = 5\text{-}15\text{ V}$

FAIRCHILD
F4075

AMPEX
589-304

TRIPLE 3-INPUT OR GATE

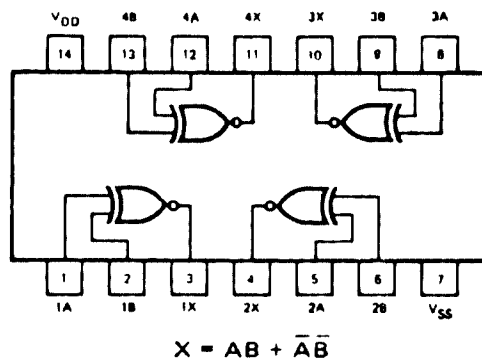


V_{ss} = 0V V_{dd} = 5-15V

FAIRCHILD
F4077

AMPEX
589-305

QUAD EXCLUSIVE-NOR GATE

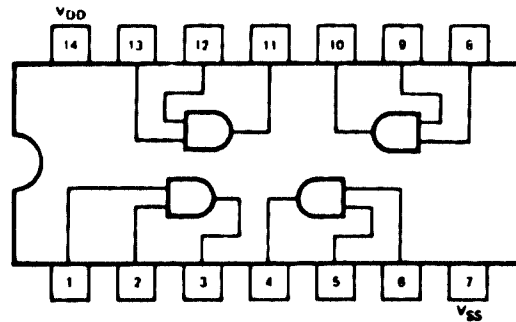


V_{ss} = 0V V_{dd} = 5-15V

FAIRCHILD
F4081

AMPEX
589-306

QUAD 2-INPUT AND GATE

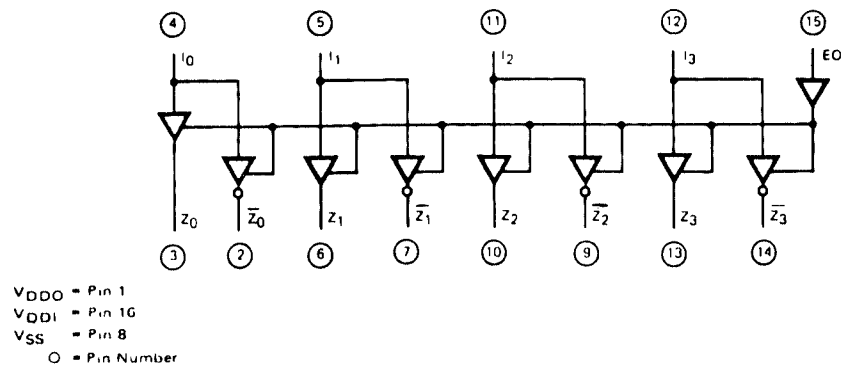


$V_{SS} = 0V$ $V_{DD} = 5-15V$

FAIRCHILD
F4104

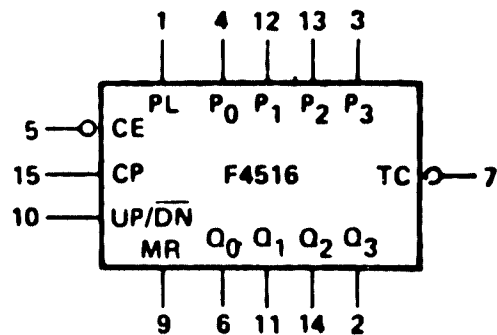
AMPEX
589-307

QUAD LOW VOLTAGE TO HIGH VOLTAGE
TRANSLATER WITH 3-STATE OUTPUTS



V_{DD} = Pin 16

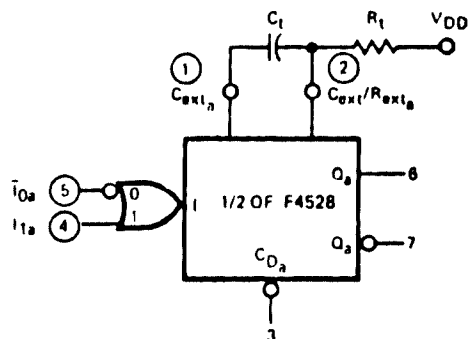
V_{SS} = Pin 8



PL	UP/DN	CE	CP	MODE
H	X	X	X	Parallel Load ($P_n \rightarrow Q_n$)
L	X	H	X	No Change
L	L	L	↗	Count Down, Binary
L	H	L	↘	Count Up, Binary

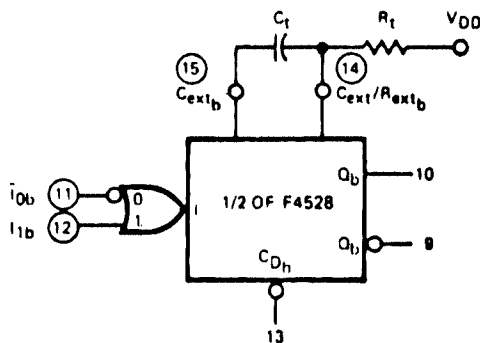
MR = LOW
H = HIGH Level
L = LOW Level

X = Don't Care
↗ = Positive-Going Transition
↘ = Negative-Going Transition



TRUTH TABLE

\bar{I}_0	I_1	\bar{C}_D	OPERATION
H → L	L	H	Trigger
H	L → H	H	Trigger
X	X	L	Reset



V_{DD} = Pin 16
 V_{SS} = Pin 8

V_{DD} = Pin 16
 V_{SS} = Pin 8

FAIRCHILD
F4725

AMPEX
589-310

64-BIT (16x4) RANDOM ACCESS MEMORY
WITH 3-STATE OUTPUTS

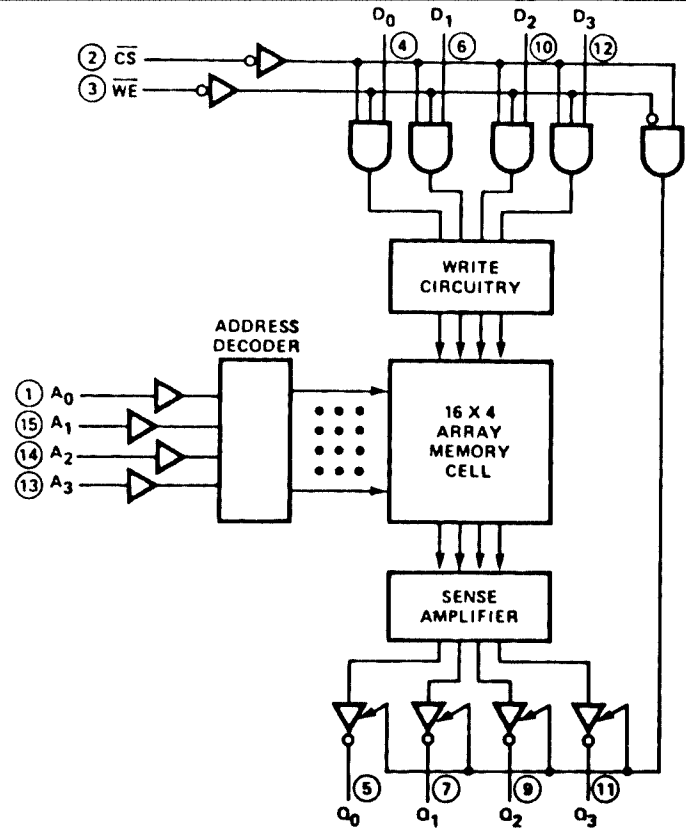
MODE SELECTION

\overline{CS}	\overline{WE}	OUTPUTS	MODE
L	L	High Impedance	Write
L	H	Outputs are Complement of Data Written into Location	Read
H	X	High Impedance	Inhibit

V_{DD} = PIN 16

V_{SS} = PIN 8

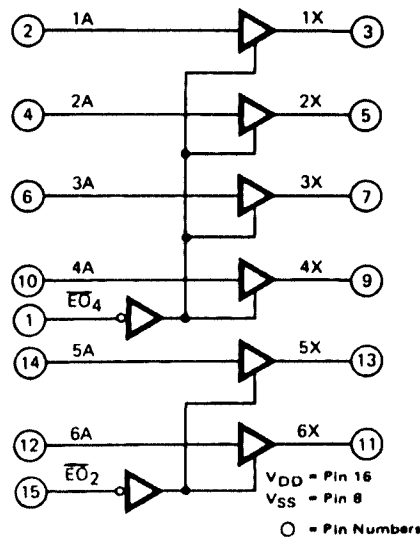
O = PIN NUMBER



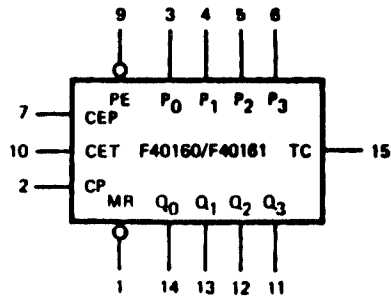
FAIRCHILD
F40097

AMPEX
589-311

3-STATE HEX NON-INVERTING AND
INVERTING BUFFERS



FAIRCHILD F40161	AMPEX 589-312	4-BIT SYNCHRONOUS COUNTERS
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SYNCHRONOUS MODE SELECTION
F40160/F40161

\overline{PE}	CEP	CET	MODE
L	X	X	Preset
H	L	X	No Change
H	X	L	No Change
H	H	H	Count

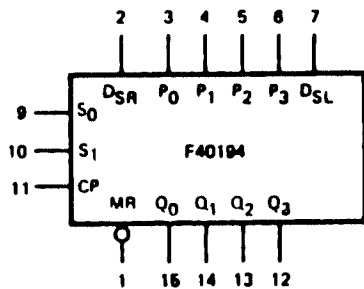
\overline{MR} = HIGH

F40161/F40163 ($Q_0 \cdot Q_1 \cdot Q_2 \cdot Q_3$)	TC
L	L
H	L
L	L
H	H

H = HIGH Level
L = LOW Level
X = Don't Care

$$TC = CET \cdot Q_0 \cdot Q_1 \cdot Q_2 \cdot Q_3 \text{ (F40161/F40163)}$$

FAIRCHILD F40194	AMPEX 589-313	4-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTER
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V_{DD} = Pin 16
 V_{SS} = Pin 8

TRUTH TABLE

OPERATING MODE	INPUTS (\overline{MR} = H)					OUTPUTS AT t_{n+1}			
	S_1	S_0	DSR	DSL	P_0, P_1, P_2, P_3	Q_0	Q_1	Q_2	Q_3
Hold	L	L	X	X	X	Q_0	Q_1	Q_2	Q_3
Shift Left	H	L	X	L	X	Q_1	Q_2	Q_3	L
	H	L	X	H	X	Q_1	Q_2	Q_3	H
Shift Right	L	H	L	X	X	L	Q_0	Q_1	Q_2
	L	H	H	X	X	H	Q_0	Q_1	Q_2
Parallel Load	H	H	X	X	L	L	L	L	L
	H	H	X	X	H	H	H	H	H

H = HIGH Voltage Level
L = LOW Voltage Level

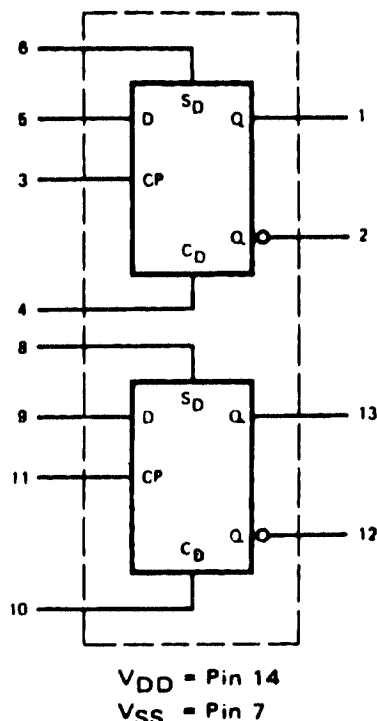
X = Don't Care
(t_{n+1}) = Indicates state after next LOW-to-HIGH clock transition.

DC CHARACTERISTICS: V_{DD} as shown, $V_{SS} = 0V$

FAIRCHILD
F4013

AMPEX
589-315

DUAL D FLIP FLOP



SYNCHRONOUS INPUTS		OUTPUTS	
CP	D	Q_{n+1}	\bar{Q}_{n+1}
\downarrow	L	L	H
\downarrow	H	H	L

Conditions: $S_D = C_D = \text{LOW}$

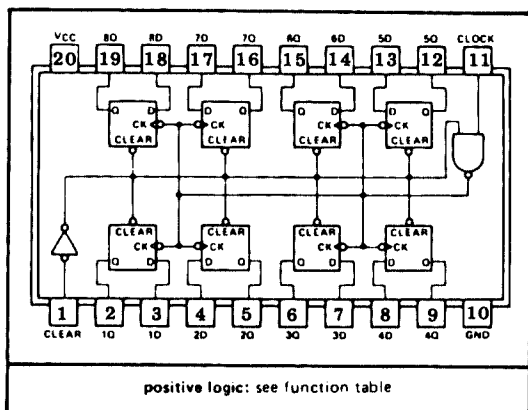
ASYNCHRONOUS INPUTS		OUTPUTS	
S_D	C_D	Q	\bar{Q}
L	H	L	H
H	L	H	L
H	H	L	L

L = LOW Level
H = HIGH Level
 \downarrow = Positive-Going Transition
X = Don't Care
 Q_{n+1} = State After Clock Positive Transition

TEXAS INST
SN74LS273N

AMPEX
589-331

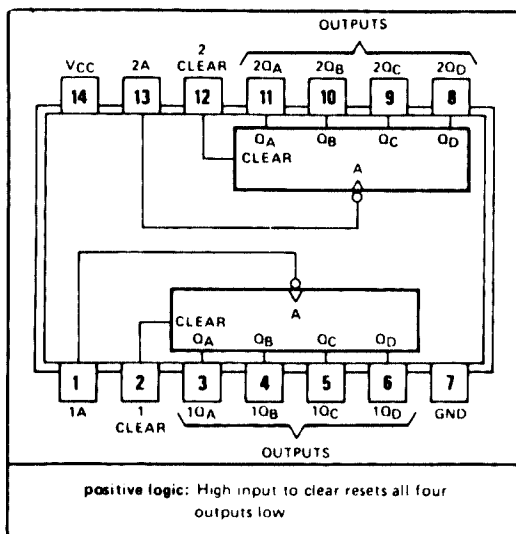
OCTAL D-TYPE FLIP-FLOP WITH CLEAR



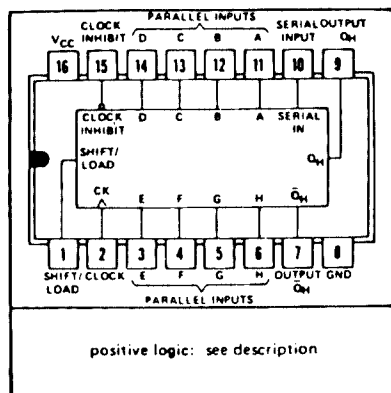
FUNCTION TABLE
(EACH FLIP-FLOP)

INPUTS			OUTPUT
CLEAR	CLOCK	D	Q
L	X	X	L
H	\uparrow	H	H
H	\uparrow	L	L
H	L	X	Q_0

H = high level (steady state)
L = low level (steady state)
X = irrelevant
 \uparrow = transition from low to high level
 Q_0 = the level of Q before the indicated steady state input conditions were established.



COUNT	OUTPUT			
	Q _D	Q _C	Q _B	Q _A
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	L	H	L	H
6	L	H	H	L
7	L	H	H	H
8	H	L	L	L
9	H	L	L	H
10	H	L	H	L
11	H	L	H	H
12	H	H	L	L
13	H	H	L	H
14	H	H	H	L
15	H	H	H	H



FUNCTION TABLE

SHIFT/ LOAD	CLOCK INHIBIT	INPUTS			INTERNAL OUTPUTS		OUTPUT Q _H
		CLOCK	SERIAL	PARALLEL A...H	Q _A	Q _B	
L	X	X	X	a...h	a	b	h
H	L	L	X	X	Q _{A0}	Q _{B0}	Q _{H0}
H	L	↑	H	X	H	Q _{An}	Q _{Gn}
H	L	↑	L	X	L	Q _{An}	Q _{Gn}
H	H	↑	X	X	Q _{A0}	Q _{B0}	Q _{H0}

H = high level (steady state), L = low level (steady state)

X = irrelevant (any input, including transitions)

↑ = transition from low to high level

a...h = the level of steady state input at inputs A thru H, respectively.

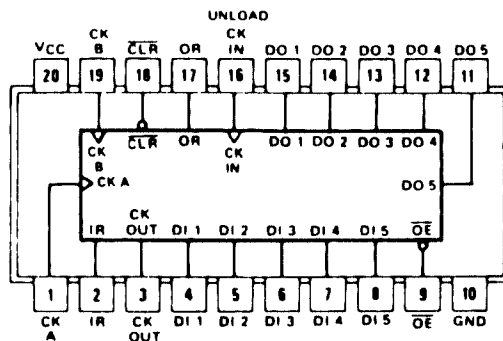
Q_{A0}, Q_{B0}, Q_{H0} = the level of Q_A, Q_B, or Q_H, respectively, before the indicated steady state input conditions were established.

Q_{An}, Q_{Gn} = the level of Q_A or Q_G, respectively, before the most recent ↑ transition of the clock.

TEXAS INSTRUMENTS
SN74S225N

AMPEX
589-397

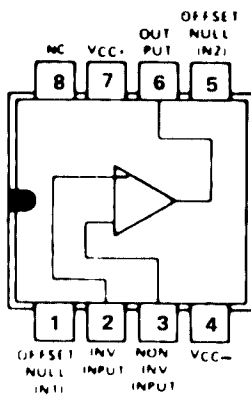
ASYNCHRONOUS FIRST IN,
FIRST OUT MEMORY

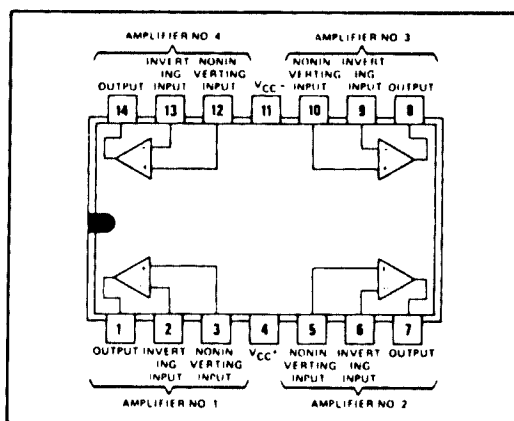
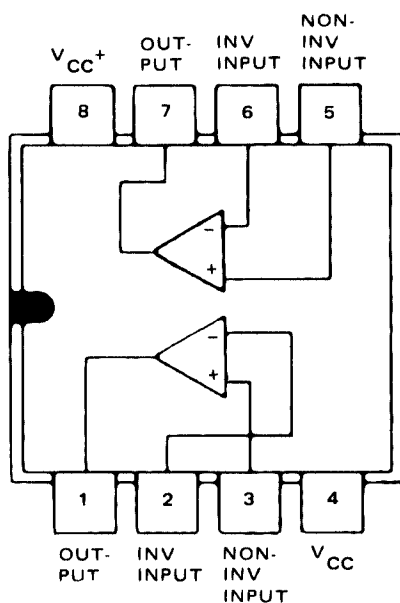


TEXAS INSTRUMENTS
TL071

AMPEX
589-423

LOW-NOISE JFET-INPUT
OPERATIONAL AMPLIFIER

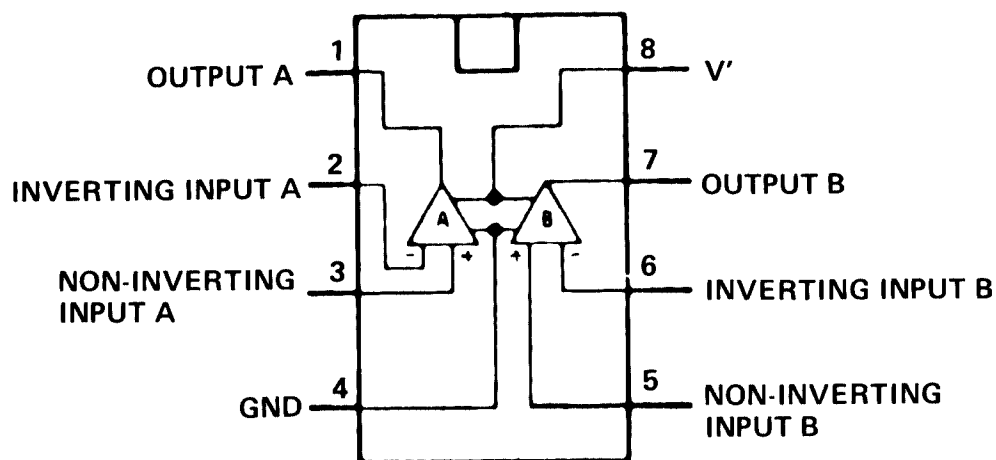




NATIONAL SEMI
LM358N

AMPEX
589-438

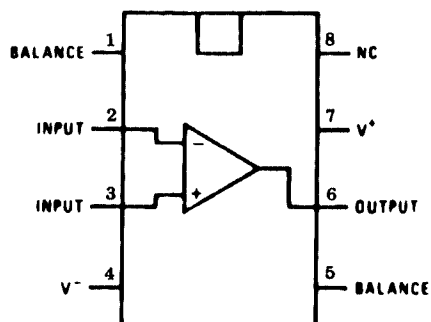
OPERATIONAL AMPLIFIER/BUFFER



NATIONAL SEMI
LF356N

AMPEX
589-441

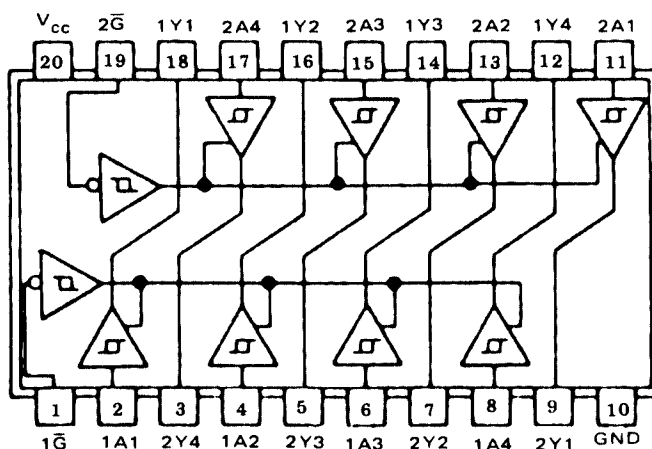
OPERATIONAL AMPLIFIER/BUFFER



TEXAS INST
SN74LS244

AMPEX
589-449

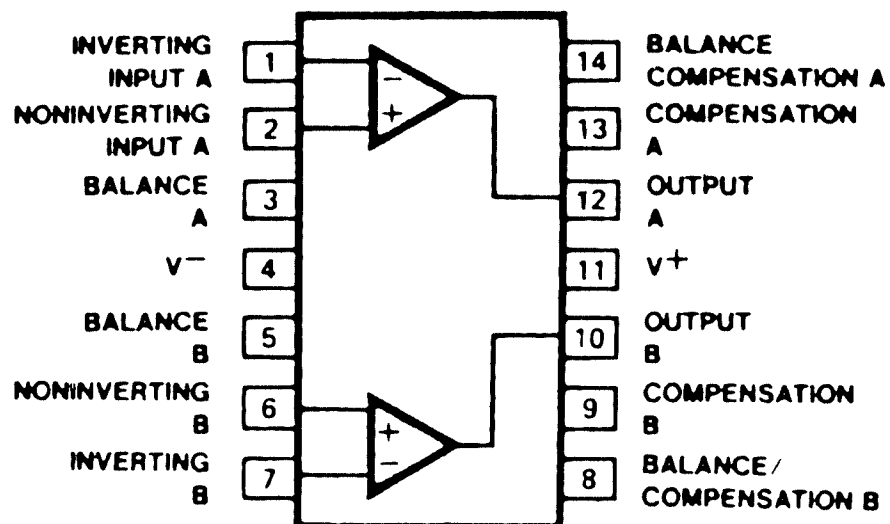
OCTAL BUFFERS/LINE DRIVERS/
LINE RECEIVERS
NONINVERTED 3-STATE OUTPUTS



SIGNETICS
NE5534N

AMPEX
589-481

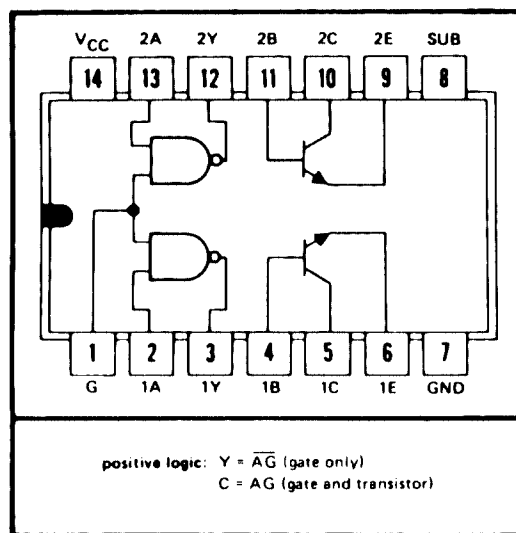
SINGLE AND DUAL LOW NOISE
OPERATIONAL AMPLIFIER



TEXAS INSTRUMENTS
SN75460

AMPEX
589-486

DUAL PERIPHERAL POSITIVE –
AND DRIVER

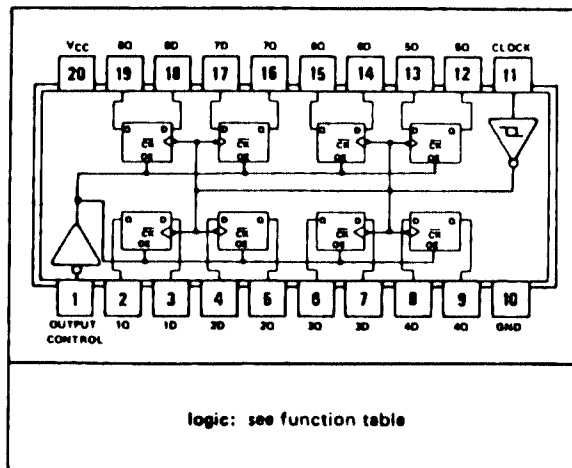


TEXAS INST
SN74374

AMPEX
589-537

OCTAL D-TYPE TRANSPARENT LATCHES
AND EDGE-TRIGGERED FLIP-FLOPS

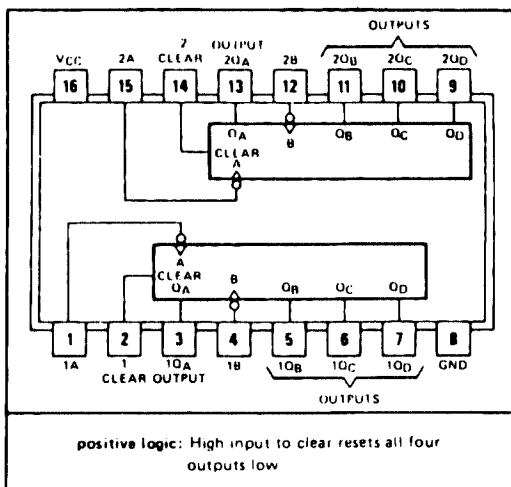
OUTPUT CONTROL	CLOCK	D	OUTPUT
L	↑	H	H
L	↑	L	L
L	L	X	Q ₀
H	X	X	Z



TEXAS INST
SN74LS390N

AMPEX
589-591

DUAL 4-BIT DECADE AND BINARY
COUNTER



BCD COUNT SEQUENCE
(EACH COUNTER)
(See Note A)

COUNT	OUTPUT			
	Q _D	Q _C	Q _B	Q _A
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	L	H	L	H
6	L	H	H	L
7	L	H	H	H
8	H	L	L	L
9	H	L	L	H

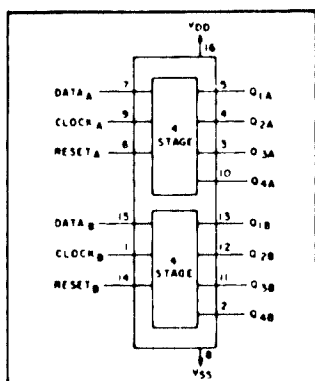
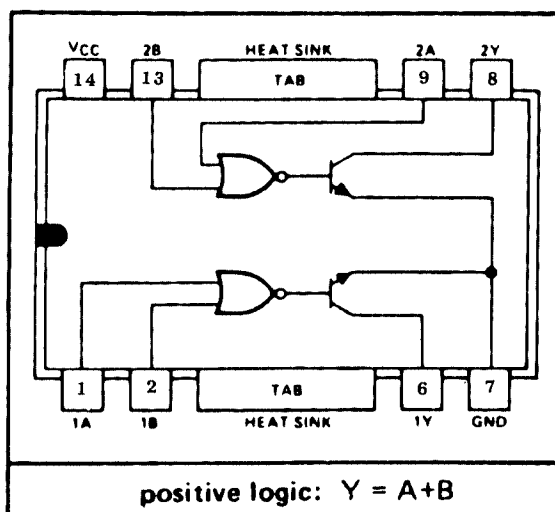
BI-QUINARY (5:2)
(EACH COUNTER)
(See Note B)

COUNT	OUTPUT			
	Q _A	Q _D	Q _C	Q _B
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	H	L	L	L
6	H	L	L	H
7	H	L	H	L
8	H	L	H	H
9	H	H	L	L

NOTES: A. Output Q_A is connected to input B for BCD count.
B. Output Q_D is connected to input A for bi-quinary count.
C. H = high level, L = low level.

FUNCTION TABLE
(EACH DRIVER)

INPUTS		OUTPUT
A	B	Y
L	L	L
L	H	H
H	L	H
H	H	H

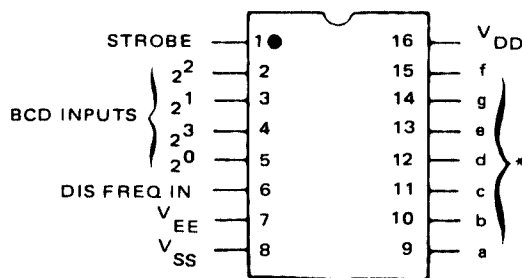


TRUTH TABLE

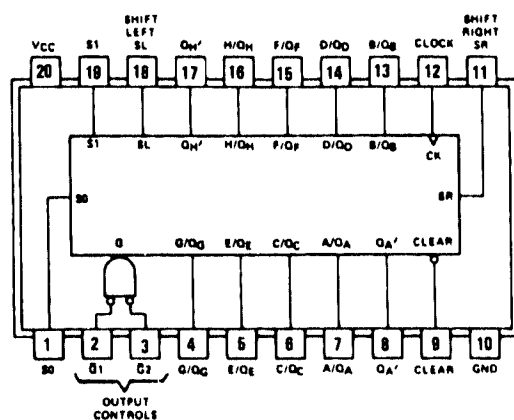
CL*	D	R	Q ₁	Q _n
	0	0	0	Q _{n-1}
	1	0	1	Q _{n-1}
	X	0	Q ₁	Q _n
X	X	1	0	0

* LEVEL CHANGE
X DON'T CARE CASE

(NO CHANGE)



*7-SEGMENT OUTPUTS



FUNCTION TABLE

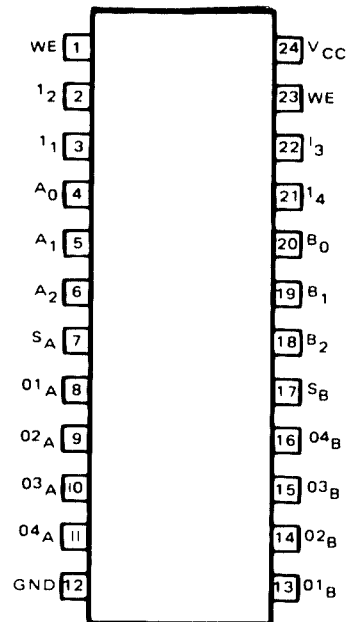
MODE	INPUTS							INPUTS/OUTPUTS								OUTPUTS		
	CLEAR	FUNCTION SELECT		OUTPUT CONTROL		CLOCK	SERIAL		A/Q _A	B/Q _B	C/Q _C	D/Q _D	E/Q _E	F/Q _F	G/Q _G	H/Q _H	Q _A '	Q _H '
		S1	S0	G1†	G2†		SL	SR										
Clear	L	X	L	L	L	X	X	X	L	L	L	L	L	L	L	L	L	L
	L	L	X	L	L	X	X	X	L	L	L	L	L	L	L	L	L	L
Hold	H	L	L	L	L	X	X	X	Q _{A0}	Q _{B0}	Q _{C0}	Q _{D0}	Q _{E0}	Q _{F0}	Q _{G0}	Q _{H0}	Q _{A0}	Q _{H0}
	H	X	X	L	L	L	X	X	Q _{A0}	Q _{B0}	Q _{C0}	Q _{D0}	Q _{E0}	Q _{F0}	Q _{G0}	Q _{H0}	Q _{A0}	Q _{H0}
Shift Right	H	L	H	L	L	†	X	H	H	Q _{An}	Q _{Bn}	Q _{Cn}	Q _{Dn}	Q _{En}	Q _{Fn}	Q _{Gn}	H	Q _{Gn}
	H	L	H	L	L	†	X	L	L	Q _{An}	Q _{Bn}	Q _{Cn}	Q _{Dn}	Q _{En}	Q _{Fn}	Q _{Gn}	L	Q _{Gn}
Shift Left	H	H	L	L	L	†	H	X	Q _{Bn}	Q _{Cn}	Q _{Dn}	Q _{En}	Q _{Fn}	Q _{Gn}	Q _{Hn}	H	Q _{Bn}	H
	H	H	L	L	L	†	L	X	Q _{Bn}	Q _{Cn}	Q _{Dn}	Q _{En}	Q _{Fn}	Q _{Gn}	Q _{Hn}	L	Q _{Bn}	L
Load	H	H	H	X	X	†	X	X	a	b	c	d	e	f	g	h	a	h

†When one or both output controls are high the eight input/output terminals are disabled to the high-impedance state; however, sequential operation or clearing of the register is not affected.

SIGNETICS
82S112

AMPEX
589-748

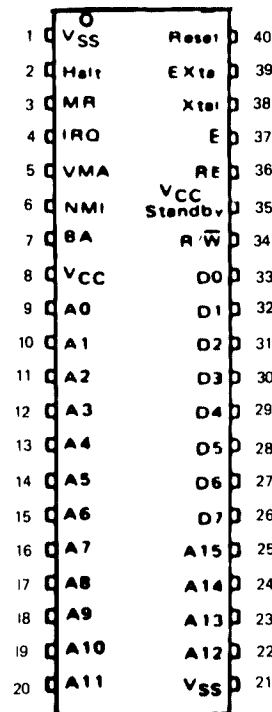
32 BIT MULTIPOINT MEMORY



MOTOROLA
MC6802

AMPEX
589-759

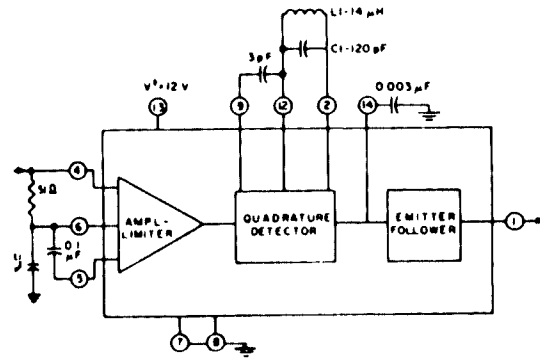
MICROPROCESSOR
WITH CLOCK AND RAM



RCA
CA2111AE

AMPEX
589-799

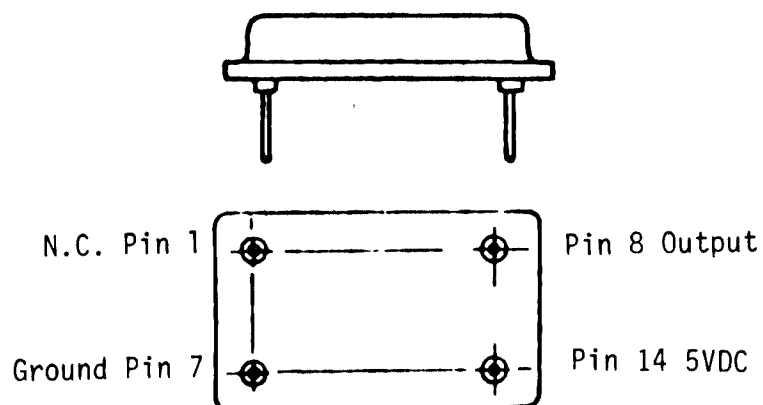
QUADRATURE DETECTOR



M.F. ELECTRONICS
M1100-4M

AMPEX
589-905

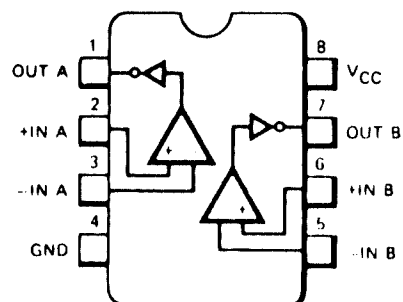
CRYSTAL CLOCK
OSCILLATOR



FAIRCHILD
9613TC

AMPEX
589-906

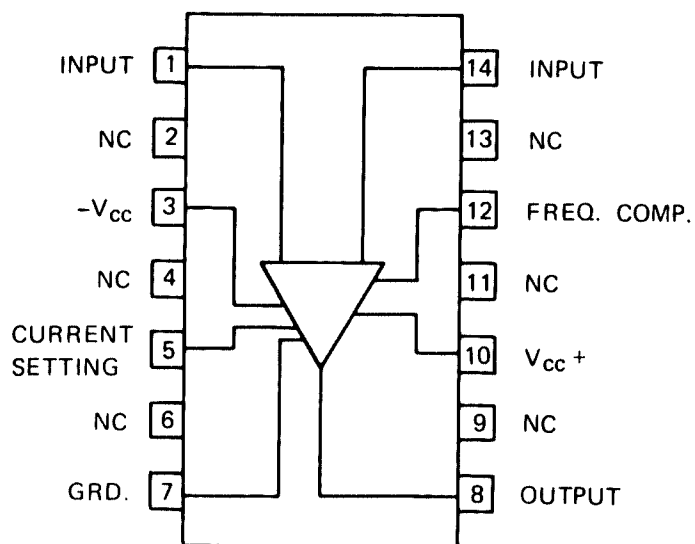
DUAL DIFFERENTIAL
LINE RECEIVER

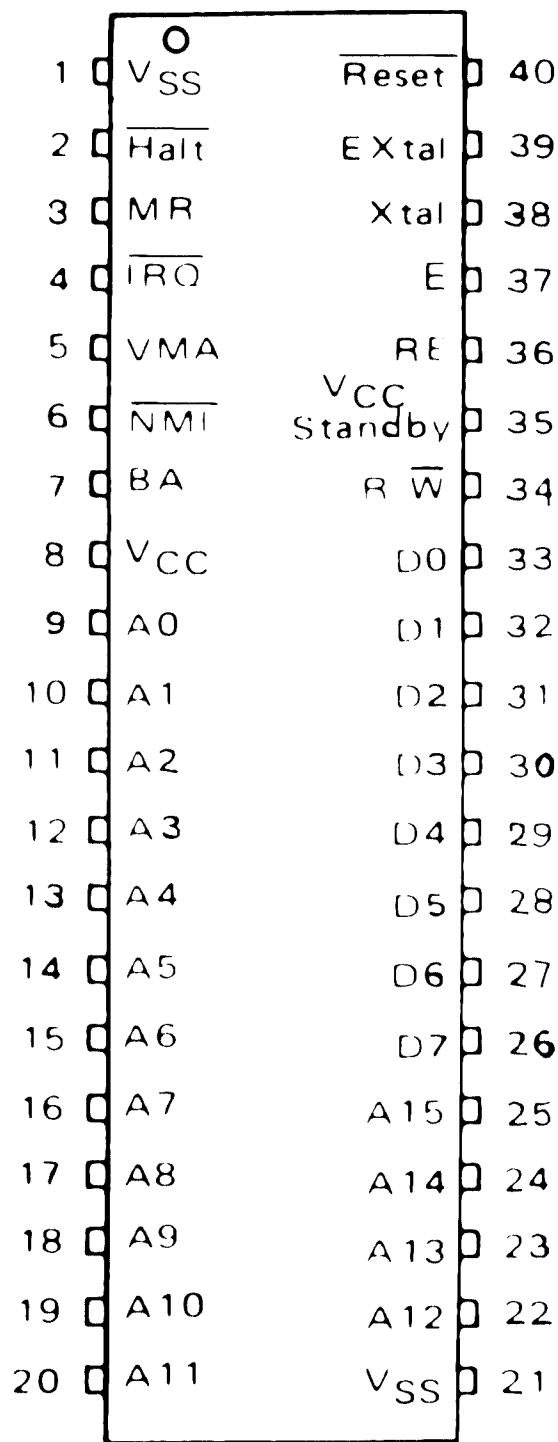


SIGNETICS
NE5539

AMPEX
589-973

FAST WIDE BANDWIDTH OPERATIONAL
AMPLIFIER





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101
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AMPEX

